$ 16 00

Ontario

Ontario Geological Survey
Open File Report 6062

Shining Tree Area High Density Regional Lake Sediment and Water Geochemical Survey, Northeastern Ontario

2001

101-06876/

Ontario

ONTARIO GEOLOGICAL SURVEY

Open File Report 6062

Shining Tree Area High Density Regional Lake Sediment and Water Geochemical Survey, Northeastern Ontario

by

D.F. Russell and S.M. Hamilton

2001

Parts of this publication may be quoted if credit is given. It is recommended that reference to this publication be made in the following form:

Russell, D.F. and Hamilton, S.M. 2001. Shining Tree area high density regional lake sediment and water geochemical survey, northeastern Ontario; Ontario Geological Survey, Open File Report 6062, 79p.

© Queen's Printer for Ontario, 2001

© Queen's Printer for Ontario, 2001.

Open File Reports of the Ontario Geological Survey are available for viewing at the Mines Library in Sudbury, at the Mines and Minerals Information Centre in Toronto, and at the regional Mines and Minerals office whose district includes the area covered by the report (see below).

Copies can be purchased at Publication Sales and the office whose district includes the area covered by the report. Although a particular report may not be in stock at locations other than the Publication Sales office in Sudbury, they can generally be obtained within 3 working days. All telephone, fax, mail and e-mail orders should be directed to the Publication Sales office in Sudbury. Use of VISA or MasterCard ensures the fastest possible service. Cheques or money orders should be made payable to the *Minister of Finance.*

Mines and Minerals Information Centre (MMIC) Macdonald Block, Room M2-17 900 Bay St. Toronto, Ontario M7A 1C3	Tel:	(416) 314-3800 1-800-665-4480(toll free inside Ontario)
Mines Library 933 Ramsey Lake Road, Level A3 Sudbury, Ontario P3E 6B5	Tel:	(705) 670-5615
Publication Sales 933 Ramsey Lake Rd., Level A3 Sudbury, Ontario P3E 6B5	Tel: Fax: E-mail:	(705) 670-5691(local) 1-888-415-9845(toll-free) (705) 670-5770 pubsales@ndm.gov.on.ca

Regional Mines and Minerals Offices:

Kenora - Suite 104, 810 Robertson St., Kenora P9N 4J2

Kirkland Lake - 10 Government Rd. E., Kirkland Lake P2N 1A8

Red Lake - Box 324, Ontario Government Building, Red Lake P0V 2M0

Sault Ste. Marie - 70 Foster Dr., Ste. 200, Sault Ste. Marie P6A 6V8

Southern Ontario - P.O. Bag Service 43, Old Troy Rd., Tweed K0K 3J0

Sudbury - Level B3, 933 Ramsey Lake Rd., Sudbury P3E 6B5

Thunder Bay - Suite B002, 435 James St. S., Thunder Bay P7E 6S7

Timmins - Ontario Government Complex, P.O. Bag 3060, Hwy. 101 East, South Porcupine P0N 1H0

Toronto - MMIC, Macdonald Block, Room M2-17, 900 Bay St., Toronto M7A 1C3

This report has not received a technical edit. Discrepancies may occur for which the Ontario Ministry of Northern Development and Mines does not assume any liability. Source references are included in the report and users are urged to verify critical information. Recommendations and statements of opinions expressed are those of the author or authors and are not to be construed as statements of government policy.

If you wish to reproduce any of the text, tables or illustrations in this report, please write for permission to the Team Leader, Publication Services, Ministry of Northern Development and Mines, 933 Ramsey Lake Road, Level B4, Sudbury, Ontario P3E 6B5.

Cette publication est disponible en anglais seulement.

Parts of this report may be quoted if credit is given. It is recommended that reference be made in the following form:

Russell, D.F. and Hamilton, S.M. 2001. Shining Tree area high density regional lake sediment and water geochemical survey, northeastern Ontario; Ontario Geological Survey, Open File Report 6062, 79p.

TABLE OF CONTENTS

ABSTRACT ix

INTRODUCTION 1

REGIONAL SETTING 1
    Bedrock Geology 1
    Physiography and Quaternary Geology 4

METHODOLOGY 4
    Sampling Methods 4
    Sample Preparation and Analytical Methods 6

QUALITY CONTROL RESULTS 6

DISCUSSION OF REGIONAL PATTERNS 9

DESCRIPTION OF ANOMALOUS AREAS 10

CONCLUSIONS 19

REFERENCES 20

APPENDIX A
    Proportional Dot Maps of Lake Depth, pH and Conductivity 23

APPENDIX B
    Proportional Dot Maps of Lake Sediment Geochemistry for Ag, Al, Au, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Pd, Pt, total REE, Ti, U, V, W and Zn 27

APPENDIX C
    Lake Sediment Analytical Data for LOI, Ag, Au, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Pd, Pt, total REE and Zn 51

CONVERSION TABLE 79

FIGURES

Figure 1 Location map of the Shining Tree study area 2

Figure 2 Generalized bedrock geology of the Shining Tree study area 3

Figure 3 Generalized Quaternary geology of the Shining Tree study area 5

Figure 4 Sample location map, Shining Tree study area .... Back pocket

Figure 5 Loss-on-ignition in lake sediments .... Back pocket

Figure 6 Location of geochemically anomalous areas 11

Figure 7 Approximate state of land tenure of the Shining Tree study area 12

TABLES

Table 1 Summary of elements including estimates of precision, Shining Tree lake sediment data set 7

Table 2 Summary of elements including estimates of precision, Shining Tree lake water data set 8

ABSTRACT

The Ontario Geological Survey carried out a helicopter-supported, high density lake sediment and water geochemical survey of the Shining Tree area in northeastern Ontario during the 1997 field season. The survey area, located approximately 90 km south of Timmins, covers an irregularly shaped area. The present study covers all of the area represented on National Topographic System (NTS) 1:50 000 scale map sheets 41P/11 and 41P/14 and parts of the area represented on map sheets 41P/6 and 41P/15. Lake sediment and/or water samples were collected from a total of 1813 lake sites and analyzed for a suite of over 50 elements. Preliminary interpretation of these analyses indicates 17 geochemically anomalous areas, including anomalous results for Ag, Au, Cr, Cu, Mo, Ni, Pb, Pd, Pt, REEs, W and Zn. The anomalous areas have been loosely ranked in order of their exploration interest. Digital data for this report is available separately as Miscellaneous Release Data (MRD-81).

INTRODUCTION

During the 1997 field season a helicopter-supported high density lake sediment and lake water sampling program was undertaken within the areas represented on all or parts of National Topographic System (NTS) 1:50 000 scale map sheets 41P/6, 41P/11, 41P/14 and 41P/15. The study area is situated along the southern edge of the Abitibi Subprovince, approximately 90 km south of the city of Timmins (Figure 1). This survey completes a 7000 km² contiguous area of high density lake sediment and water sampling in northeastern Ontario which also includes the Peterlong Lake-Radisson Lake area (Bajc et al. 1996; Ontario Geological Survey 2001a) and the Montreal River Headwaters area (Hamilton 1997; Ontario Geological Survey 2001b). Sampling was carried out in order to determine background concentrations of a number of elements in lake sediments and waters. The data are used as a preliminary method for assessing the mineral exploration potential of the area.

The Shining Tree area was sampled during the National Geochemical Reconnaissance (NGR) lake sediment program undertaken by the Geological Survey of Canada in the late 1970s (Hornbrook and Friske 1988). Sampling during this program was conducted at a relatively low density of 1 sample per 13 km².

REGIONAL SETTING

Bedrock Geology

The bedrock geology of many parts of the study area has been mapped at a scale of either 1:31 680 or 1:20 000 (Bright 1970, 1984; Carter 1977, 1980, 1983, 1986; Jensen 1996a, 1996b; Lovell 1967; Junilla 1990). Carter (1987) mapped Miramichi, Asquith and Fawcett Townships at a scale of 1:50 000 as part of a larger compilation map. Sothman Township was mapped at a scale of 1:12 000 by Abraham (1953). The bedrock geology of Burrows, Kemp, Mond, Sheard, Ogilvie, Amyot and Browning Townships has not been mapped at a detailed scale (Ontario Geological Survey 1991). More recent work in the area has been completed at a scale of 1:30 000 by Johns (1999, 2000), and consists of a compilation and reinterpretation of the bedrock geology in Cabot, Kelvin, Natal, Connaught, Churchill, Macmurchy, Miramichi, Asquith and Fawcett Townships. More work is planned to the north of these areas in the 2001 field season (Glen Johns, Ontario Geological Survey, personal communication, May 2001).

The geology of the Western Abitibi subprovince is quite complex. A generalized bedrock geology map of the Shining Tree survey area is shown in Figure 2. The bedrock assemblages have been divided based on U-Pb zircon geochronological ages as well as characteristics such as lithofacies, structural geology, geochemistry and geophysical signature (Ayer et al. 1999). The main part of the study area is underlain by 2745-2725 Ma age rocks of the ultramafic to intermediate Pacaud and Deloro assemblages and the 2717-2703 Ma age felsic to intermediate metavolcanic Kidd-Munro and Tisdale assemblages. These units are intruded to the west by Keewatin-age felsic to intermediate plutonic rocks of the Ramsey-Algoma granitoid complex and the Kenogamissi Batholith. The metavolcanic and felsic intrusive units are overlain unconformably by the alkalic metavolcanic and clastic/volcaniclastic metasediments of the ~2687 Ma age Timiskaming assemblage. Finally, the Paleoproterozoic sediments of the Huronian Supergroup unconformably overlie all of the units, dominating the bedrock geology in the northeastern Townships and in the southernmost part of the study area.

A number of past producing mines are present in the study area. Between the years of 1934 to 1956 the Young-Davidson and the Matachewan Consolidated mines in Powell Township produced a cumulative total in excess of 950,000 oz of gold and 260,000 oz of silver (Lovell 1967). The Ronda Mine in southwestern Macmurchy Township produced 2727 oz of gold and 4830 oz of silver during its single year of production in 1939. From 1965 to 1966, Stairs Exploration and Mining Company Limited operated a gold mine in Midlothian Township, producing 2674 oz of gold and 1318 oz of silver (Bright 1970).

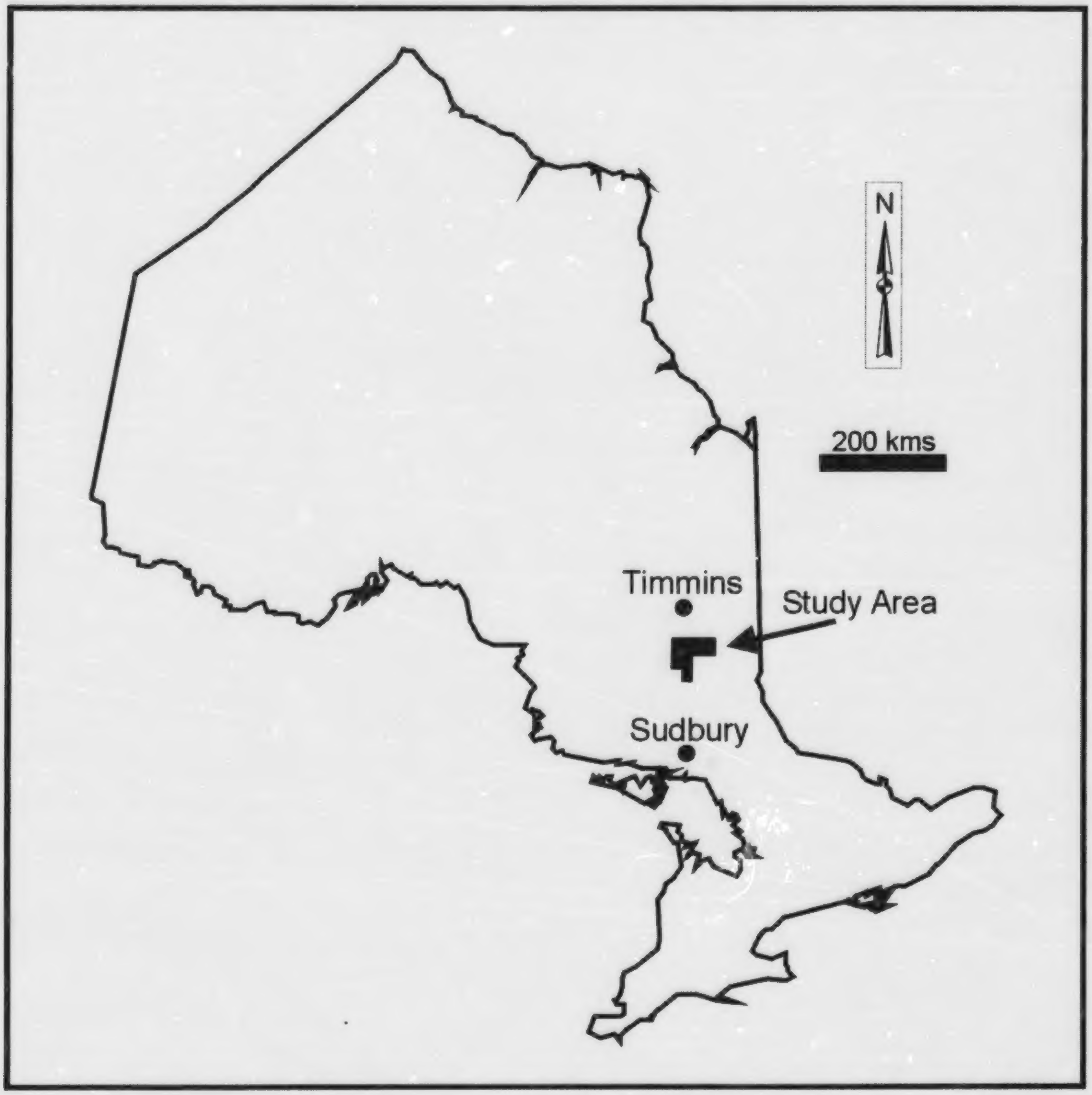


Figure 1. Location map of the Shining Tree study area.

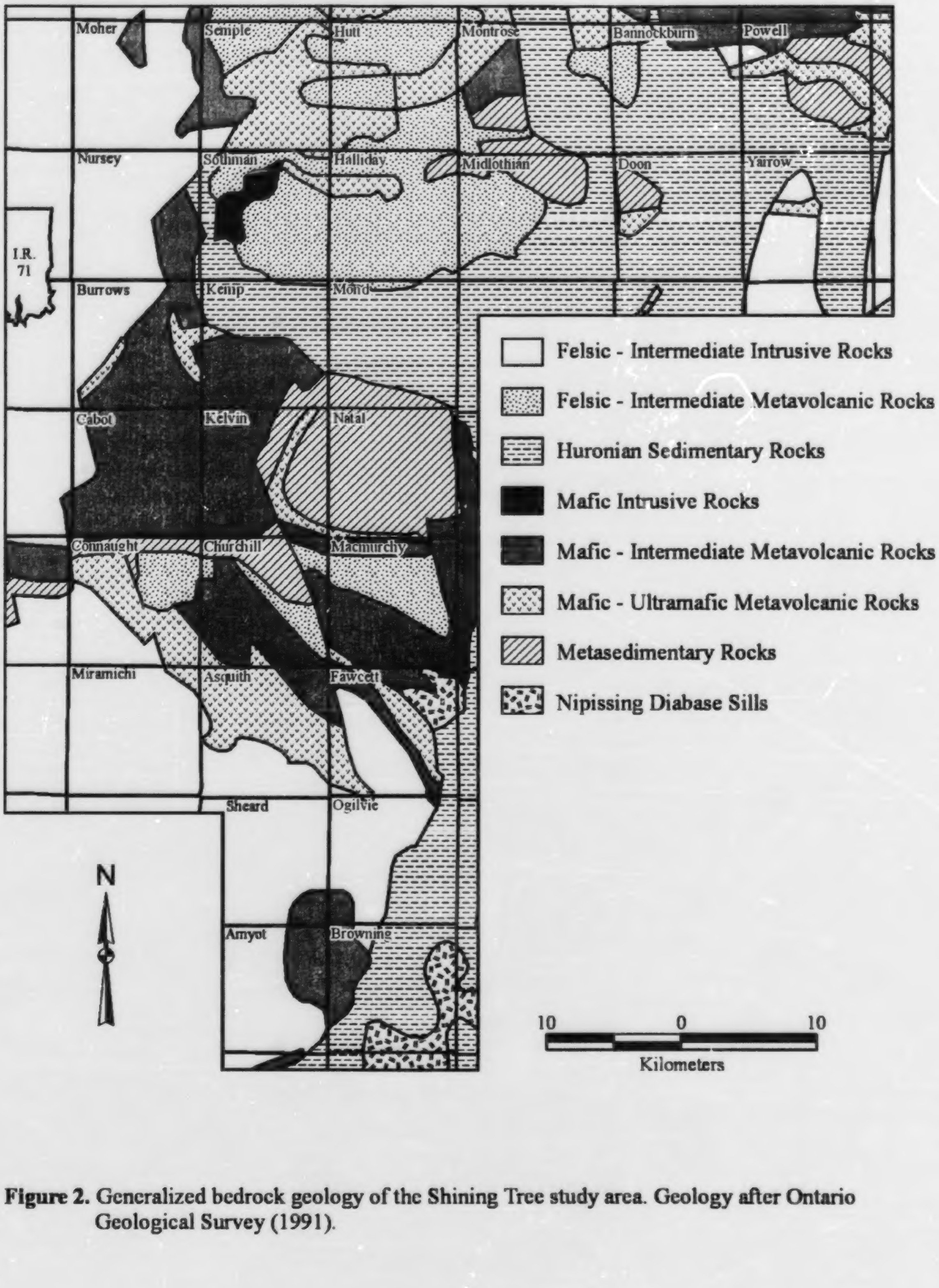

Moher
Semple
Hutt
Montrose
Bannockburn
Powell
Nursey
Sothman
Halliday
Midlothian
Doon
Yarrow
I.R.
71
Burrows
Kemp
Mond
Cabot
Kelvin
Natal
Connaught
Churchill
Macmurchy
Miramichi
Asquith
Fawcett
Sheard
Ogilvie
Amyot
Browning
N
Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
10
0
10
Kilometers

Figure 2. Generalized bedrock geology of the Shining Tree study area. Geology after Ontario Geological Survey (1991).

Physiography and Quaternary Geology

A generalized Quaternary geology map for the study area is shown in Figure 3. The most recent detailed Quaternary mapping within the study area has been completed at a scale of 1:50 000 (Alcock 1991). This mapping covers the main portion of the survey area from Miramichi Township in the southwest to Hutt Township in the northeast. Sheard, Ogilvie, Amyot and Browning Townships were mapped by Roed and Hallet (1979) and Montrose, Bannockburn, Powell, Midlothian, Yarrow and Doon Townships were mapped by Roed (1979) at a scale of 1:100 000 as part of the Northern Ontario Engineering Geology Terrain Study project.

Elevation and local relief in the survey area increases gradually to the south, with elevations ranging from <335 m above sea level (asl) in the northern Townships to over 600 m asl in the south. As such, the general direction of drainage throughout the study area is to the north. Local relief ranges from a generally low to flat lowland area in the northern and northeastern part of the study area to moderate, bedrock controlled topography in the southern part. The southernmost Townships are also underlain by low relief topography. Major fault zones underlie many valleys.

Lowland areas exhibit poor drainage, and are underlain by glaciolacustrine and eolian fine sand and silt. Areas with higher relief have better drainage and are generally covered with a thin veneer of sandy till (Alcock 1991). Overburden thickness generally ranges from 1 to 10 m, with local thicknesses exceeding 50 m in areas of glaciofluvial ice-contact and outwash deposits and valleys infilled with glaciolacustrine sediments (Alcock 1991).

Areas of extensive drift cover occur in the northern part of the study area in Semple, Sothman and northern Kemp Townships where glaciofluvial outwash reaches thicknesses in excess of 35 m (Abraham 1953). In Fawcett, Ogilvie, Amyot and Browning Townships, a southward change in depositional environment from moraine (the Sultan Scarp) to glaciofluvial outwash to glaciolacustrine covers much of the area.

METHODOLOGY

Sampling Methods

During the 1997 survey, lake sediment and/or water samples were collected from 1813 sites for an average density of 1 sample per 1.4 km^2. Organic lake sediment samples were collected using the OGS designed gravity corer operated from a helicopter float. Standard OGS collection protocols (Fortescue 1988) were employed including extrusion and discard of the uppermost 20 cm of core (post-*ambrosia*) in order to avoid anthropogenic influences and diagenetic cycling in the near-surface environment. The remainder was collected and retained for geochemical analysis.

Water samples were collected using a semi-automated collection apparatus consisting of a submersible pump, sample collection tray and a variety of hoses and valves. Where possible, samples were taken from a depth of 2 m below the lake surface; on shallower lakes (<3 m), they were collected just below the water surface. During collection, the water was pumped into a flow cell attached to a multi-parameter water quality meter where measurements of pH, conductivity, temperature, dissolved oxygen and oxidation-reduction potential were taken. The water samples were kept in ice-filled coolers and filtered (0.45 μm filters) and acidified to 1% ultrapure nitric acid within 24 hours after collection.

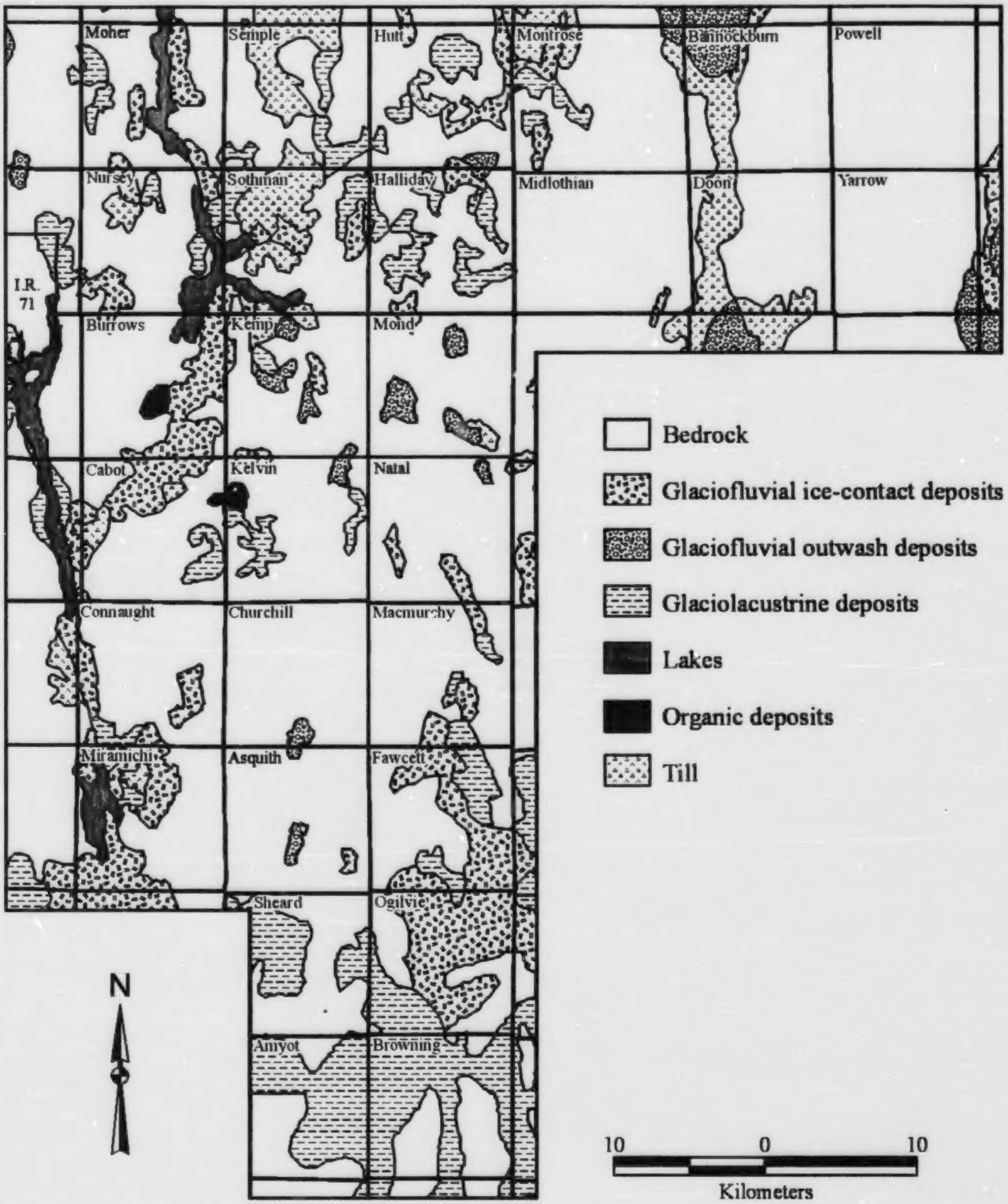

Moher
Semple
Hutt
Montrose
Bannockburn
Powell
Nursey
Sothman
Halliday
Midlothian
Doon
Yarrow
I.R.
71
Burrows
Kemp
Mond
Cabot
Kelvin
Natal
Connaught
Churchill
Macmurchy
Miramichi
Asquith
Fawcett
Sheard
Ogilvie
Amyot
Browning
Bedrock
Glaciofluvial ice-contact deposits
Glaciofluvial outwash deposits
Glaciolacustrine deposits
Lakes
Organic deposits
Till
N
10
0
10
Kilometers

Figure 3. Generalized Quaternary geology of the Shining Tree study area. Geology after Barnett et al. (1991).

Detailed notes on sediment samples and sample locations were taken using a pen-based computer, and GPS locations were recorded at each site. Sample locations are illustrated on Figure 4 (back pocket).

Sample Preparation and Analytical Methods

Original sample preparation included freeze drying, disaggregation of the sample using a mortar and pestle, sieving to -80 mesh (-177 microns) and splitting into 3 portions for analysis by: 1) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS), 1887 samples, including quality control (QC) samples; 2) Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES), 1877 samples including QC samples; and 3) Instrumental Neutron Activation Analysis (INAA), 1865 samples including QC samples. Loss-on-ignition (LOI) was determined at 500°C using an automated thermo-gravimetric furnace. Laboratory analysis for Au and platinum group elements (PGEs) was performed by lead fire assay followed by an Inductively Coupled Plasma-Mass Spectrometry finish (FA/ICP-MS) on a total of 1714 samples.

Analysis of the water samples was accomplished by direct aspiration ICP-MS to determine a suite of approximately 50 elements. Ion chromatography analysis was also performed to measure levels of major cation and anion species. These results are not discussed in this report, but are included in the digital data release MRD-81.

QUALITY CONTROL (QC) RESULTS

Quality control of the lake sediment analyses was monitored using random sample pulp duplicates and certified reference materials (CANMET lake sediment standards LKSD-1, LKSD-4, and Ontario Geological Survey internal standard MS-1). Quality control for the lake water data was monitored using random sample duplicates and St. Lawrence River Standard SLRS-3. Table 1 and Table 2 contain data for estimates of precision, the median and range, and the analytical method for the elements analyzed. Analytical precision was determined by plotting duplicate pair data on an X-Y chart and determining the variation of 95% of the data from a 1:1 ratio. These tables also contain the average values and coefficients of variation for the certified reference materials. A complete listing of all geochemical data used in the preparation of Tables 1 and 2 is available in in the digital data release MRD-81.

The interval cutoffs used in the production of the geochemical dot plots take into consideration the precision estimates in Table 1 so as to provide the most meaningful geochemical signatures for focusing exploration efforts and avoiding false anomalies.

Generally, the quality of the Shining Tree area analytical data is good. Minor amounts of analytical drift were indicated in the lake sediment ICP-MS data set for chrome, copper, nickel, lead, vanadium, yttrium and zinc between samples 97-SMH-0570 and 97-SMH-0730. A similar, albeit weaker, pattern was noted in the FA/ICP-MS data for palladium and platinum, and in the ICP-OES data set. Repeat analyses for this sample sequence returned similar results, but elevated levels in the certified reference materials suggest that some of the results may be artificially elevated. Caution should be exercised when interpreting the results in this sample range.

The lake sediment ICP-MS results for silver showed analytical drift from 97-SMH-1650 to 97-SMH-2014, which is a significant contributing factor to the high coefficient of variation for Ag. Readers are urged to use caution with interpretation of these results.

Element	Analytical Method[1]	Units	MDL[2]	Median[3]	Range[3]		Estimated Precision[4]	LKSD-1; n = 25		
					Min	Max		Certified Value	Mean QC Result	Coefficient of Variation (%)
Ag	ICP-MS	ppm	0.05	<0.05	<0.05	24.5	2.65	0.6	1.79	56.5
Al	ICP-OES	ppm	30	5963	121	64503	1680	41300	4067	7.1
As	INAA	ppm	1	4	<1	110	3	40	40	10.4
Au	FA/ICP-	ppb	3	<3	<3	6040	5	5	5	120.1
Au	INAA	ppb	1	<1	<1	4990	6	5	9	242.8
Ba	ICP-MS	ppm	1	55	<1	1067	36	430	112	8.3
Be	ICP-MS	ppm	0.1	0.3	<0.1	3.2	0.2	—	0.2	28.3
Bi	ICP-MS	ppm	0.01	0.05	<0.01	2.1	0.02	—	0.84	8.3
Br	INAA	ppm	1	31	<1	150	8	11	10	13.6
Ca	ICP-OES	ppm	20	9832	352	178396	3584	77200	71895	3.8
Cd	ICP-MS	ppm	0.05	0.64	<0.05	6.69	0.22	1.2	2.08	8.2
Ce	ICP-MS	ppm	0.03	20.1	0.17	240.02	8.48	27	21.19	8.8
Co	ICP-MS	ppm	0.05	4.35	<0.05	56.51	1.91	9	9.04	7.0
Cr	ICP-MS	ppm	1	31	<1	529	12	12	14	10.4
Cs	ICP-MS	ppm	0.01	0.37	<0.01	5.38	0.21	1.5	0.59	9.2
Cu	ICP-MS	ppm	0.5	30.4	<0.5	397.2	8.2	44	48.5	7.3
Dy	ICP-MS	ppm	0.05	1.27	<0.05	17.59	0.47	3.4	1.93	8.2
Er	ICP-MS	ppm	0.01	0.67	<0.01	11.77	0.25	—	1.06	8.8
Eu	ICP-MS	ppm	0.05	0.49	<0.05	6.79	0.2	0.9	0.58	7.9
Fe	ICP-OES	ppm	5	6610	561	170163	4663	18000	19016	4.4
Gd	ICP-MS	ppm	0.05	3.2	<0.05	51.81	1.2	—	3.93	11.2
Hf	ICP-MS	ppm	0.05	0.05	<0.05	1.06	0.04	3.6	0.06	19.7
Ho	ICP-MS	ppm	0.01	0.25	<0.01	4.07	0.09	—	0.38	9.3
K	ICP-OES	ppm	100	216	<100	6614	220	9100	520	13.0
La	ICP-MS	ppm	0.05	12.35	<0.05	170.23	6.16	16	12.86	9.5
Li	ICP-MS	ppm	0.5	2.6	<0.5	32.8	2.2	7	5.4	11.5
Lu	ICP-MS	ppm	0.005	0.1	<0.005	2.4	0.04	0.4	0.154	11.7
Mg	ICP-OES	ppm	20	1484	<20	36405	712	10300	6231	5.1
Mn	ICP-OES	ppm	1	148	<1	30210	194	460	446	4.7
Mo	ICF-MS	ppm	0.1	1.6	<0.1	59.1	0.3	12	12.5	7.6
Na	ICP-OES	ppm	10	53	<10	18295	68	14800	210	13.0
Nb	ICP-MS	ppm	0.05	0.39	<0.05	2.99	0.27	—	0.63	18.6
Nd	ICP-MS	ppm	0.08	12.09	<0.08	176.88	5.65	16	14.32	7.2
Ni	ICP-MS	ppm	0.5	23.1	<0.5	479.5	6.5	11	20.9	10.7
P	ICP-OES	ppm	50	745	<50	14802	240	900	759	7.2
Pb	ICP-MS	ppm	0.05	3.42	<0.05	79.33	1.06	84	71.55	6.8
Pd	FA/ICP-	ppb	0.3	0.6	<0.3	109.1	0.8	—	0.2	180.2
Pr	ICP-MS	ppm	0.05	3.11	<0.05	40.33	1.32	—	3.46	10.5
Pt	FA/ICP-	ppb	0.3	0.7	<0.3	4.6	0.5	—	0.2	171.9
Rb	ICP-MS	ppm	0.05	2.31	<0.05	22.81	1.62	24	4.25	10.2
S	ICP-OES	ppm	30	4912	73	46881	978	15700	16231	3.8
Sb	ICP-MS	ppm	0.05	0.12	<0.05	8.17	0.06	1.2	0.74	11.5
Sc	ICP-MS	ppm	0.1	2.2	<0.1	17.4	1.1	9	3.0	10.0
Sm	ICP-MS	ppm	0.05	2.17	<0.05	33.72	1.09	4	2.90	9.4
Sr	ICP-MS	ppm	0.1	22.4	<0.1	1312.1	7.9	250	84.8	8.2
Tb	ICP-MS	ppm	0.05	0.42	<0.05	7.13	0.26	0.6	0.55	13.0
Th	ICP-MS	ppm	0.05	0.43	<0.05	31.16	0.58	2.2	1.41	12.8
Ti	ICP-OES	ppm	3	84	<3	10541	95	3010	287	12.9
Tl	ICP-MS	ppm	0.05	0.08	<0.05	1.56	0.02	—	0.20	7.7
Tm	ICP-MS	ppm	0.005	0.09	<0.005	1.73	0.03	—	0.143	10.2
U	ICP-MS	ppm	0.05	0.83	<0.05	12.1	0.24	9.7	9.28	7.0
V	ICP-MS	ppm	10	<10	<10	207	12	27	15	22.4
W	ICP-MS	ppm	0.05	0.12	<0.05	102.91	0.14	<4	0.70	19.3
Y	ICP-MS	ppm	0.05	7.56	<0.05	112.47	3.09	19	12.83	9.8
Yb	ICP-MS	ppm	0.05	0.64	<0.05	12.26	0.25	2	0.97	8.5
Zn	ICP-OES	ppm	2	70	4	491	16	337	324	3.8
Zr	ICP-MS	ppm	0.1	1	<0.1	63.9	1.2		1.4	16.6
LOI	Grav.	%	0.01	52.66	0.88	95.52	3.25	23.5	22.53	7.3

[1] ICP-MS = Inductively Coupled Plasma – Mass Spectrometry; ICP-OES = Inductively Coupled Plasma – Optical Emission Spectrometry; FA/ICP-MS = Fire Assay/ICP-MS finish; INAA = Instrumental Neutron Activation Analysis

[2] MDL = Method detection limit

[3] n = 1675 (does not include pulp duplicates or certified reference materials)

[4] Estimated precision at 95% confidence level; FA/ICP-MS elements based on results of 47 duplicate pairs.

Table 1. Summary of elements including estimates of precision, Shining Tree lake sediment data set.

Element	Analytical Method[1]	Units	MDL[2]	Median[3]	Range		Estimated Precision[4]	SLRS-3[5]; n = 67		
					Min	Max		Certified Value	Mean QC Result	Coefficient of Variation (%)
(Ag)	ICP-MS	ppb	0.05	<0.05	<0.05	3.894	*0.005	—	0.003	300
Al	ICP-MS	ppb	0.2	23.5	<0.2	364.7	25	31	32	19
(As)	ICP-MS	ppb	0.05	0.367	<0.05	1.893	0.1	0.72	0.7	8
Au	ICP-MS	ppb	0.01	0.001	<0.01	0.361	*0.001	—	0.006	30
Ba	ICP-MS	ppb	0.3	5.107	<0.3	130.62	2	13.4	14	9
Be	ICP-MS	ppb	0.02	0.005	<0.02	0.064	0.015	0.005	0.006	52
Ca	ICP-MS	ppb	60	8376	<60	39051	1.5	6	5.9	15
Cd	ICP-MS	ppb	0.005	0.006	<0.005	2.254	0.015	0.013	0.010	19
Ce	ICP-MS	ppb	0.001	0.029	<0.001	2.637	0.04	—	0.29	9
Co	ICP-MS	ppb	0.02	0.015	<0.02	0.973	0.05	0.027	0.03	14
Cr	ICP-MS	ppb	0.03	0.292	<0.03	14.373	*0.1	0.3	0.3	11
Cs	ICP-MS	ppb	0.005	0.006	<0.005	0.294	*0.003	—	0.013	26
Cu	ICP-MS	ppb	0.2	0.736	<0.2	34.959	0.5	1.35	1.3	12
Dy	ICP-MS	ppb	0.001	0.004	<0.001	0.103	0.004	—	0.022	9
Er	ICP-MS	ppb	0.001	0.003	<0.001	0.051	0.003	—	0.012	10
Eu	ICP-MS	ppb	0.001	0.002	<0.001	0.049	0.002	—	0.008	12
Fe	ICP-MS	ppb	1	43	<1	1340	10	100	93	8
Gd	ICP-MS	ppb	0.001	0.005	<0.001	0.194	0.004	—	0.034	11
Ho	ICP-MS	ppb	0.001	0.001	<0.001	0.018	0.0008	—	0.004	11
La	ICP-MS	ppb	0.001	0.023	<0.001	1.253	0.02	—	0.24	9
Li	ICP-MS	ppb	0.02	0.291	<0.02	7.399	0.1	—	0.6	17
Lu	ICP-MS	ppb	0.001	<0.001	<0.001	0.006	0.0005	—	0.002	12
Mg	ICP-MS	ppb	20	1615	<20	14915	0.3	1.6	1.6	1
Mn	ICP-MS	ppb	0.2	1.7	<0.2	194.5	5	3.9	4	17
Mo	ICP-MS	ppb	0.3	0.052	<0.3	17.817	0.05	0.19	0.19	12
Nd	ICP-MS	ppb	0.003	0.027	<0.003	1.298	0.02	—	0.23	9
Ni	ICP-MS	ppb	0.4	0.455	<0.4	69.797	0.1	0.83	0.8	8
Pr	ICP-MS	ppb	0.001	0.006	<0.001	0.329	0.01	—	0.06	9
Rb	ICP-MS	ppb	0.02	0.67	<0.02	4.591	0.01	—	1.63	9
Sb	ICP-MS	ppb	0.03	0.027	<0.03	0.579	0.01	0.12	0.12	11
Sc	ICP-MS	ppb	0.01	0.169	<0.01	0.718	0.1	—	0.2	18
Sm	ICP-MS	ppb	0.001	0.005	<0.001	0.222	0.005	—	0.045	10
Sn	ICP-MS	ppb	0.02	0.112	<0.02	0.774	*0.03	—	0.01	373
Sr	ICP-MS	ppb	1	15.283	<1	277.42	2	28.1	29	9
Tb	ICP-MS	ppb	0.001	0.001	<0.001	0.024	0.001	—	0.004	13
Th	ICP-MS	ppb	0.02	0.005	<0.02	0.075	*0.2	—	0.04	54
Ti	ICP-MS	ppb	0.01	0.251	<0.01	3.904	0.1	—	0.7	9
Tl	ICP-MS	ppb	0.01	0.122	<0.01	29.949	0.005	—	0.007	32
Tm	ICP-MS	ppb	0.001	<0.001	<0.001	0.007	0.0005	—	0.002	14
U	ICP-MS	ppb	0.001	0.007	<0.001	6.678	0.005	0.045	0.045	11
V	ICP-MS	ppb	0.01	0.154	<0.01	1.755	0.05	0.3	0.29	9
W	ICP-MS	ppb	0.1	0.002	<0.1	0.655	*0.01	—	0.01	121
Y	ICP-MS	ppb	0.001	0.03	<0.001	0.554	0.01	—	0.13	9
Yb	ICP-MS	ppb	0.001	0.003	<0.001	0.042	0.002	—	0.011	11
Zn	ICP-MS	ppb	0.5	1.384	<0.5	35.933	1	1.04	1	170

[1] ICP-MS = Inductively Coupled Plasma – Mass Spectrometry

[2] MDL = Method detection limit

[3] n = 1811 (does not include pulp duplicates or certified reference materials)

[4] Analytical precision +/- to the 95% confidence level, except elements denoted by "*" which are to the 90% confidence level

[5] SLRS-3 = National Research Council, St. Lawrence River Standard-3: certified reference standard

Table 2. Summary of elements including estimates of precision, Shining Tree lake water data set.

Analytical results for tantalum were almost entirely below method detection limits of 0.05 ppm and 0.5 ppm for both ICP-MS and INAA methods. As a result, an assessment of the quality of the Ta data was not possible, and it has not been included in the lake sediment data set. The quality of the palladium and platinum data is good. There is a general correlation between values for Pd and Pt, and the estimates of precision (0.8 and 0.5 for Pd and Pt) are considered excellent. The high coefficients of variation for the certified reference materials are attributable to the fact that most of these analytical results were near or below the method detection limit.

Analytical results for gold by both INAA and FA/ICP-MS are included in this report. There is some corroboration between the 2 data sets, most noticeably in samples which are highly anomalous, such as sites known to be affected by mine tailings. Considering the possible inhomogeneity of gold and the inherent difficulties of low level analysis of small sample sizes (varying from 3 to 10 gms), Au values that are not comparable by both methods should be treated with caution.

DISCUSSION OF REGIONAL PATTERNS

Proportional dot maps for LOI (Figure 5, back pocket), lake depth, pH and electrical conductivity were plotted on a generalized bedrock geology map of the study area and are shown in Appendix A. Proportional dot maps of analytical results for Ag, Al, Au (FA/ICP-MS and INAA), Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Pd, Pt, total REE, Ti, U, V, W and Zn are contained in Appendix B. In this report, samples with less than 15% LOI were not included in the data set used for the production of the geochemical dot plots in Appendix B. Samples with a low amount of organic matter tend to suppress the geochemical signature of most trace elements due to the relative abundance of resistant quartz- and feldspar-rich material. Exceptions to this may include PGEs, which may show anomalous results in low-organic samples, especially when those samples were collected in the vicinity of mafic to ultramafic bedrock. All data, regardless of LOI value has been included with the digital data released in conjunction with this report.

The average lake depth for the study area is 5 m. The majority of deep lakes (>13 m) occur along major fault systems. Other deep lakes occur in areas of glaciofluvial ice-contact or outwash deposits and may represent kettle lakes.

The mean values for pH and conductivity in the study area are 7.12 and 39.2 µs/cm, respectively. Regional trends in pH and conductivity are evident. Alkaline values for pH are present in areas dominated by granitic bedrock, Huronian metasediments, and areas with extensive glacial overburden; acidic values of pH occur in areas which are underlain predominantly by ultramafic to mafic intrusive rocks and metavolcanic rocks. Electrical conductivity values are preferentially high in areas of glacial cover, which is possibly due to the presence of carbonates in the sediments. In areas of sparse glacial cover, conductivity is higher over metavolcanic rocks and distinctly low in lakes which occur in Huronian metasediments.

Local variations in geology can cause background levels of certain elements to be elevated, resulting in what appear to large anomalous areas. For example, an area in the northeastern part of the survey areas appears to have a large anomaly in REEs. However, close inspection indicates that these anomalous values are contained almost exclusively within the Huronian metasediments. As such, the anomalies discussed below represent those which are of greatest interest in their respective areas, taking into account such factors as geology, geophysics and associated pathfinder elements. This discussion is not exhaustive and the reader is encouraged to undertake further investigation.

A total of 17 multi- and single-element anomalous areas have been defined (Figure 6) and are discussed in the following section. For most elements, concentrations exceeding the 95th percentile of the data set are defined as "elevated", concentrations exceeding the 98th percentile are defined as "anomalous", and concentrations exceeding the 99th percentile are defined as "highly anomalous". Elemental concentrations of Au exceeding the 99th percentile of the data set are defined as "anomalous" and concentrations exceeding the 99.5th percentile are defined as "highly anomalous". Gold anomalies should be viewed with caution as the FA/ICP-MS method has some inherent potential sources of contamination, including the flux and furnaces used.

As of February 2001, several of the areas discussed in this report were available for staking. The approximate state of land tenure for the study area is shown in Figure 7. Readers are referred to the Provincial Recording Office for an up to date and precise description of the availability of land for staking.

DESCRIPTION OF ANOMALOUS AREAS

Area 1: Matachewan Area; Ag, Au, Cd, Co, Cu, Mo, Ni, Pb, ±Pd, ±Pt, U, W, Zn

This is a diffuse anomaly in several elements that extends northwest from the Matachewan Mine area across a major part of Powell Township. Several sites in the southeastern part of this area are either tailings ponds from early mining activity, or are immediately down-drainage from these ponds. These sites include 884, 885, 886, 893, 894, 918, 921 and 1363, and will not be considered in this discussion. Several other sites in the area are located near areas where drill holes, trenches and test pits are found (Lovell 1967), so caution should be used when interpreting these results.

A total of 7 sites in the area (887, 911, 914, 916, 1168, 1169 and 1171) returned gold values considered to be reproducible by both fire assay and INAA methods. The average value of the 2 methods at each site ranges from 7 ppb (887, 914, 1169) to 25 ppb (1171). Additionally, sites 909, 912 and 915 returned 8 ppb, 9 ppb and 9 ppb respectively by INAA, but were not analyzed by fire assay.

Elevated to highly anomalous Cu values were returned from 16 sites. These values range from 93.7 ppm at site 889 to >220 ppm at sites 903, 905 and 911. Ten sites contain elevated to highly anomalous Ni, ranging from a low of 54.9 ppm at site 902 to a high of 153.3 ppm at site 905. Site 905 also contains elevated values for Pd (4.2 ppb) and Pt (2.2 ppb). Elevated to highly anomalous values for Mo occur in 12 lakes and range from a low of 7.1 ppm at site 904 to a high of 40.0 ppm at site 889. The Mo anomalies are located in many of the same lakes as the Cu and Ni anomalies, as well as several other lakes to the east. There are a total of 8 sites containing elevated to highly anomalous levels of Zn, 8 sites with anomalous to highly anomalous Co, 7 sites are elevated to highly anomalous in Cd and 5 sites are elevated to anomalous in Pb. All of these anomalies occur to the east of the Mistinikon Lake Fault. Bedrock geology in this area is a complex assemblage of mafic metavolcanic rocks, Timiskaming metasediments, ultramafic intrusive rocks and granitic and syenitic intrusive rocks, all of which have been intruded by the north trending late Archean Matachewan diabase. Many areas have been carbonatized and sericitized, and several small faults and shear zones are present (Lovell 1967).

To the west of the fault, sites 1326 and 1358 contain elevated and highly anomalous values in Cu and Mo respectively, in addition to elevated values for Zn (site 1358) and Pb, Ni

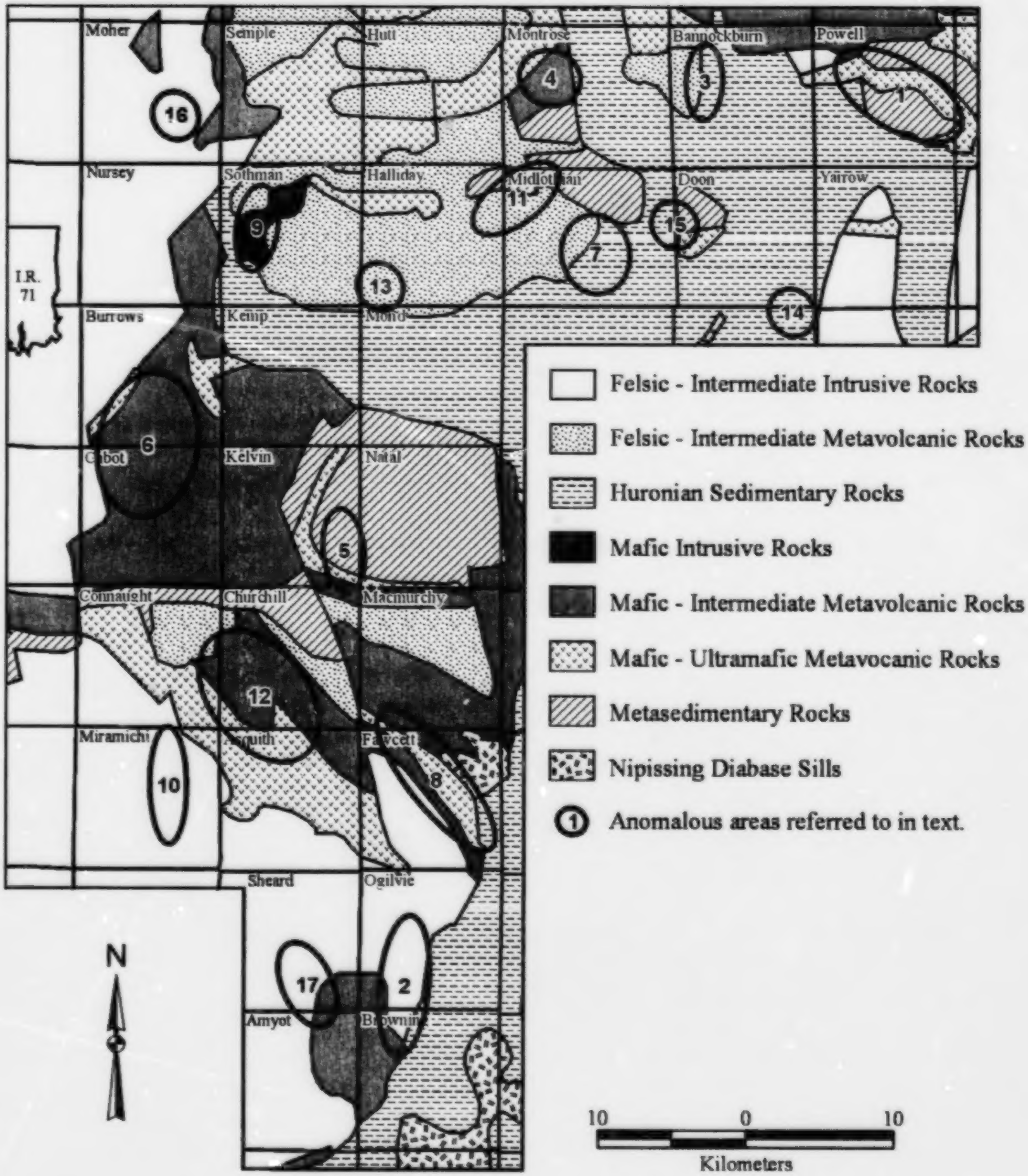
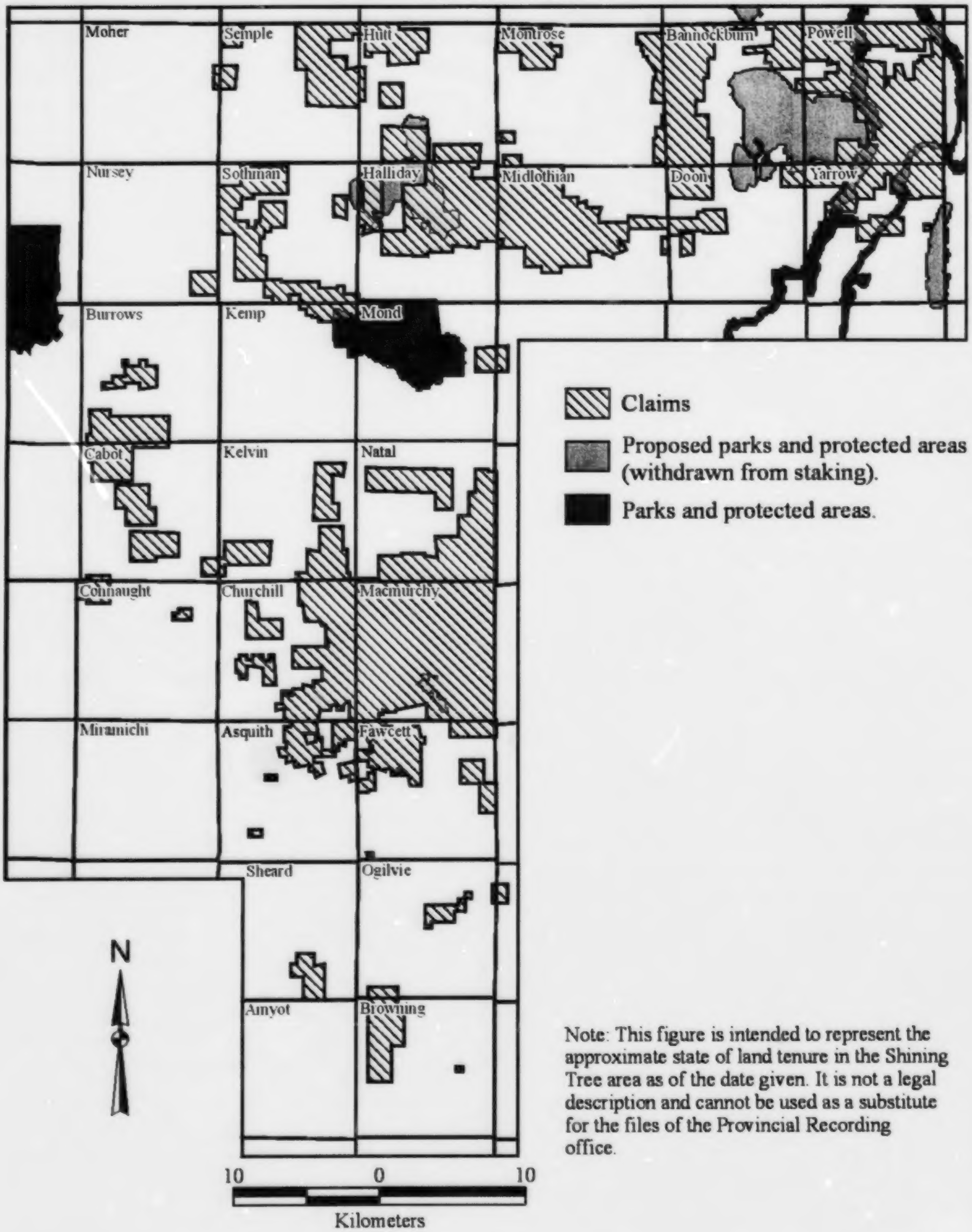

Moher
Semple
Hutt
Montrose
Bannockburn
Powell
Nursey
Sothman
Halliday
Midlothian
Doon
Yarrow
I.R. 71
Burrows
Kemp
Mond
Cabot
Kelvin
Natal
Connaught
Churchill
Macmurchy
Miramichi
Asquith
Fawcett
Sheard
Ogilvie
Amyot
Browning
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavocanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
① Anomalous areas referred to in text.
N
10
0
10
Kilometers

Figure 6. Location of geochemically anomalous areas.


Moher
Semple
Hutt
Montrose
Bannockburn
Powell
Nursey
Sothman
Halliday
Midlothian
Doon
Yarrow
Burrows
Kemp
Mond
Cabot
Kelvin
Natal
Connaught
Churchill
Macmurchy
Miramichi
Asquith
Fawcett
Sheard
Ogilvie
Amyot
Browning
▨ Claims
▩ Proposed parks and protected areas (withdrawn from staking).
■ Parks and protected areas.
N
10
0
10
Kilometers

Note: This figure is intended to represent the approximate state of land tenure in the Shining Tree area as of the date given. It is not a legal description and cannot be used as a substitute for the files of the Provincial Recording office.

Figure 7. Approximate state of land tenure of the Shining Tree study area as of February, 2001.

and Ag (site 1326). There is a Cu showing immediately to the north of these 2 sites, and several drill holes are present in the area (Lovell 1967). The bedrock geology is mapped as basalt, andesite and tuff, and is bounded to the south by Huronian conglomerate and to the north by granite.

All of the anomalies in this area occur within an area underlain by a northwest trending magnetic high (Ontario Geological Survey 1997).

As of February 2001, much of this area had been staked. Some land was available in the area of Log Lake (site 896) and to the west, as well as to the north of site 1326. A portion of the area covered by the West Montreal River Provincial Park is unavailable for staking, and another area has been withdrawn from staking as part of the proposed Mistinikon Lake Uplands Conservation Reserve.

Area 2: Ida Lake-Kamiskanta Lake Area; REE, Be, Y, Zr, Pd, Pt, Au (INAA, FA), Cu, Mo, Ni

A total of 6 lakes in this area make up an anomaly with a strong REE signature. One of these lakes also has a strong PGE signature. Sites 1663, 1666, 1667, 1669, 1713 and 1715 are elevated to highly anomalous in both REEs and Zr, ranging from respective lows of 125.02 ppm (site 1666) and 6.5 ppm (site 1667), to 601.1 ppm and 63.9 ppm (site 1715). These are the highest values in the survey area for REEs and Zr. Site 1715 also has the highest Y value at 112.47 ppm. Sites 1663, 1667, 1669 and 1713 are also elevated to anomalous in Y, while sites 1667, 1669 and 1715 are all elevated in Be. In addition to the REE signature, site 1715 is highly anomalous in Pd (9.7 ppb), Pt (4.3 ppb), Cu (397.2 ppm – the highest value in the survey), and elevated in Au (15 ppb by both methods), Mo (8.4 ppm) and Ni (58.1 ppm). Several of these sites also have elevated to highly anomalous values for Co, Cr, Ti, V, W and Zn.

Sites 1663, 1666, 1713 and 1715 have anomalous levels of Fe and/or Mn, which may, in part, be influencing the results due to scavenging effects. However, this effect would not account for the anomalous results in the remaining lakes, nor is it likely to affect all of the elements present. The anomalous areas overlie a region of glaciofluvial and glaciolacustrine deposits, which may be influencing some of the results. Several sites are adjacent to an exposed bedrock knob, and are located in an area underlain by mafic to intermediate metavolcanic, Huronian metasedimentary and granitic rocks which have been intruded by the Nipissing diabase.

As of February 2001, part of this area had been staked. Some land was available between sites 1663 and 1715.

Area 3: Galer Lake Area; Pd, Pt, Cu, Ni

Three lakes in this area make up an anomaly with a PGE-type signature. Site 1324 is highly anomalous in Pd and Pt (7.5 ppb and 3.2 ppb respectively). It also contains anomalous Cu (135.6 ppm) and elevated Ni (62.8 ppm). Site 1292 returned a highly anomalous value for Cu (179.4 ppm) and elevated values for Pd and Ni (3.0 ppb and 62.6 ppm respectively). Site 1288 returned an elevated value for Pd, 2.9 ppb. Site 1324 was sampled during the Geological Survey of Canada program (Hornbrook and Friske 1988), and produced anomalous analytical values for Cu and Ni of 133 ppm and 57 ppm, respectively.

The area has not been mapped in any great detail. Jensen (1996b) shows the bedrock geology as a Mg-rich tholeiitic basalt, as interpreted from geophysics. As of February 2001, the land surrounding this area was fully staked.

Area 4: Northwest Montrose Township Area; ±Au, Pd, ±Pt, Cr, V, REE, Zr, Be, Y

This anomaly consists of 6 lakes, and exhibits both an ultramafic signature and REE-type signature similar to that of the Strange Lake Deposit, Labrador (Dyer and Breaks 1996): one lake has an ultramafic-type anomaly, 2 have REE-type, and 3 lakes contain both types.

Sites 1616, 1618, 1623 and 1624 contain elevated levels of Cr and elevated to highly anomalous levels of Pd (8.5 ppb, 2.6 ppb, 4.9 ppb and 4.0 ppb). Sites 1618 and 1623 also contain anomalous and elevated V and elevated Au values (8 and 7 ppb by INAA). In addition, site 1623 is very weakly anomalous in Pt (1.7 ppb).

Site 1618 is anomalous in REEs (173.31 ppm total REEs), highly anomalous in Y (32.61 ppm) and elevated in Be and Zr (5.1 ppm and 0.8 ppm). Sites 1621 to 1623 contain elevated levels of REEs (134.01 ppm, 150.07 ppm and 144.17 ppm), with elevated to anomalous Y. Sites 1622 and 1624 are elevated in Be, and sites 1623 and 1624 are elevated in Zr.

Ontario Geological Survey (1991) shows the bedrock geology of the area as mafic to ultramafic metavolcanic and mafic to intermediate metavolcanic rocks. Jensen (1996a) shows small peridotite intrusions to the north of these sites, and the second vertical derivative (Ontario Geological Survey 1996) shows a number of small magnetic highs in the area which may represent other intrusions.

As of February 2001, much of this area had been staked. Some land was available for staking to the south of sites 1616 and 1623.

Area 5: North of Bigfour Lake Area; Ni, Zn, Pd, Pt, Cr

Several lakes in this area returned elevated to highly anomalous values for Ni and Zn. These values range from a low of 67.3 ppm Ni at site 1583 to a high of 275.6 ppm Ni at site 1585, and 157 ppm Zn (sites 1237 and 1584) to 327 ppm Zn at site 1585. Site 1585 also contains elevated levels of Pd (4.0 ppb), highly anomalous Pt (4.6 ppb) and highly anomalous Cr (165 ppm). Sites 1584 and 1237 were sampled by the GSC (Hornbrook and Friske 1988) with site 1584 containing highly anomalous Ni (54 ppm) and anomalous Zn (165 ppm), and site 1237 containing anomalous Ni (50 ppm) and elevated Zn (144 ppm).

Johns (1999) shows the bedrock geology of the area as slate/argillite of the Timiskaming assemblage overlying ultramafic metavolcanic rocks and cut by a north-northeast trending fault. Carter (1986) indicates extensive drilling and occurrences of Cu, Zn, Pb, Ag, Au and Ni in the vicinity of site 1585.

As of February 2001, this area was almost entirely staked. A small area to the south of site 577 was still open.

Area 6: Macfie Lake Area; Pd, Pt, Cr, Ni, Mo, Au

This anomaly is diffuse, with several elements returning elevated to highly anomalous values at several sites from central Cabot Township north into Burrows Township. A total of 10 sites are anomalous to highly anomalous in Pd, ranging from 4.7 ppb at site 291 to 12.5 ppb at site 699. Seven of these sites are also anomalous to highly anomalous in Pt; values range from 2.4 ppb at site 704 to 3.7 ppb at site 701. Two of the other sites contain elevated Pt (2.0 ppb at site 604 and 2.1 ppb at site 758). A further 10 sites contain elevated levels of Pd with a low value for the region of 2.9 ppb (site 727). Three of these sites (664, 666 and 688) contain elevated to anomalous values of Pt (2.7 ppb, 2.0 ppb and 1.8 ppb). Twelve lakes are elevated to highly anomalous in Cr, ranging from 87 ppm at site 729 to 225 ppm at site 699. There are 13 sites with elevated to highly anomalous Mo (between 6.5 ppm and 45.6 ppm), and 5 sites with elevated or anomalous Ni. Other anomalous elements within the area include Cd, Pb, Zn, W and V. Sites 729 and 731 returned elevated (9 ppb) and highly anomalous (56 ppb) values of Au by the INAA method. Au values at site 731 are 9 ppb, site 664, 19 ppb, and site 681, 5 ppb, all by fire assay. Site 681 has an indication of Au mineralization adjacent to it (Carter 1986).

Numerous sites in this area have high LOI values which may contribute to some of the elevated values, however, Carter (1986) shows occurrences of Cu, Au, Mo, Ni, Pb, Zn, Co and Ag through many parts of the area which enhances the validity of the analytical data. Johns (2000) has mapped the area as mafic to intermediate metavolcanic rocks with minor felsic-intermediate metavolcanics bounded to the east by the Togo Batholith. A small gabbroic intrusion lies immediately south of site 605.

As of February 2001, many parts of this area had been staked.

Area 7: Northern Lloyd Lake Area; Ni, Cr, Mg, Co, Ti, Li

This anomaly covers a wide area and primarily contains anomalous values of Ni and Cr with lesser amounts of Co, Ti, Mg and Li. Sites 1739, 1741 and 1742 are immediately adjacent to mine tailings (Alcock 1991) and will not be considered in this discussion. Other sites within the same drainage areas as these sites may also be influenced and should be interpreted with some caution.

A total of 19 lakes are elevated to highly anomalous in Ni; values range from a low of 51.5 ppm at site 1517 to the highest value in the survey of 479.5 ppm at site 1406. Cr values are also elevated to highly anomalous at many of these same sites, with the lowest value of 90 ppm at site 1735, and the highest (also the highest in the survey) at site 1406. It should be noted that site 1406 appears to be immediately down-drainage from the tailings at site 1741, and the Ni and Cr values there may be artificially elevated.

There are 13 sites within this area which are elevated to highly anomalous in Mg. These anomalies are likely derived from bedrock sources. Alcock (1991) has mapped the Quaternary geology of the area as mainly bedrock with a thin veneer of till. Elevated to anomalous values in Co, Li and Ti also occur in several lakes.

Bright (1970) mapped the bedrock geology as amygdaloidal and brecciated rhyolite to dacite which has been intruded by a gabbroic-peridotitic body and subsequently by Matachewan diabase. The gabbro/peridotite shows up as a large magnetic high (Ontario Geological Survey 1996), and extends farther east than is indicated in Bright (1970). This suggests that the intrusion may occur beneath the Huronian metasediments east of sites 1301 and 1738. A number of drill holes and pits are present in the area and a Cu-Zn-Ni occurrence is noted adjacent to site 1506 (Bright 1970).

As of February 2001, much of this area had been staked. There was some land open in the vicinity of site 1736.

Area 8: Fawcett Lake Area; Pd, Pt, Cr, U, ±Au

This anomaly comprises a total of 15 lakes from South Sandstrum Lake in the southeast to Jerry Lake in the northwest. Eleven of those lakes are elevated to highly anomalous in Pd, with values ranging from 2.7 ppb (site 379) to 7.7 ppb (site 279). Eight of the lakes with Pd anomalies are also elevated to highly anomalous in Pt, with a high of 4.1 ppb at site 268. There are no Cu or Ni lake sediment anomalies associated with any of these lakes, although Carter (1987) and Johns (1999) report Cu and Ni occurrences in this area.

There are 7 lakes in this area with Cr anomalies and 8 with Mo anomalies. Values for Cr range from elevated at site 279 (107 ppm) to highly anomalous (195 ppm) at site 381; Mo values are elevated (7.1 ppm at site 1945) to highly anomalous (14.9 ppm at site 381). Site 279 was also sampled by the GSC (Hornbrook and Friske 1988), and returned an anomalous value for Mo of 8 ppm.

Results for U indicated 8 lakes with elevated to highly anomalous values. The lowest of these was 3.01 ppm at site 1945 and the highest was 12.10 ppm at site 382.

Sites 382 and 277 returned elevated values for Au by INAA (7 ppb and 8 ppb). Site 277 was also elevated in Au by fire assay (5 ppb). Site 279 did not return any Au values in this survey, however, the GSC results indicate 95 ppb Au. Site 279 is immediately adjacent to site 277 and Johns (1999) shows an Au occurrence on the western shore.

Sites 387 and 1944 are elevated in Zn, and Johns (1999) indicates a Zn occurrence to the north of these 2 sites. Both of these sites have high LOI values (>70%), indicating that organic scavenging may be influencing the results. Additional anomalies in Pb, W and V are present throughout the area.

Johns (1999) shows the bedrock geology to be a northwest trending band of intermediate to felsic tuff breccia which is dissected by a gabbroic intrusion. A number of small Matachewan diabase intrusions have also been mapped. The geophysical data for the area shows a number of small, discontinuous magnetic highs which may represent additional intrusions without surface expression. Nearly all of the geochemical anomalies are within lakes entirely or partially underlain by the metavolcanic rocks. In addition, much of the area is covered with ice-contact glacial deposits. The materials which make up the ice-contact deposits are not necessarily proximal to the area, and they may also have some influence on some of the lake sediment results. The fact that the anomalies show some correlation to the underlying bedrock and are not scattered throughout the area is encouraging.

As of February 2001, many parts of this area were available for staking.

Area 9: Reading Lake Area; Pd, Pt, Mo, ±Ni

Sites 806, 811, 822 and 1094 contain elevated to highly anomalous values for Pd (4.0 ppb, 4.8 ppb, 4.6ppb and 7.4 ppb) and Pt (2.0 ppb, 2.9 ppb, 2.0 ppb and 3.6 ppb). Values for Mo are also elevated to highly anomalous at 3 sites (806, 811 and 1094), and site 1094 has an elevated value for Ni (66.8 ppm). Site 811 was sampled by the GSC (Hornbrook and Friske, 1988), and returned a Ni value of 36 ppm. Site 806 has a high value for LOI of 70.86%, and site 822 contains anomalous Fe and highly anomalous Mn. Both of these factors may contribute to trace element scavenging. The bedrock geology in the area is mapped as gabbro, dunite and peridotite, (Abraham 1953) which is favourable for PGE occurences. However, extensive, thick glaciofluvial deposits overlie the bedrock in the area (Alcock 1991), and may also be contributing to the signature. Owing to the relative lack of associated base metal anomalies and the previously mentioned contributing factors, the reader is urged to use caution when interpreting the results in this area.

As of February 2001, much of the surrounding area had been staked. Some land was available in the area between sites 806 and 811.

Area 10: Opikinimika River – Elephant Head Lake Area; Pd, Pt, Cr, Mo

Three lakes in this area show anomalous to highly anomalous values for Pd and Pt. Sites 92, 232 and 234 returned 5.3, 12.0 and 5.1 ppb Pd respectively, and site 234 returned 3.8 ppb Pt.

All of these values were confirmed by re-analysis. In addition, sites 48, 92, 232 and 234 contain elevated to highly anomalous values for Cr, ranging from 105 ppm (site 232) to 333 ppm (site 92). Sites 36, 38, 48 and 234 report anomalous to highly anomalous values for Mo. Site 48 was sampled by the GSC (Hornbrook and Friske 1988), and shows a Ni value of 36 ppm and a Mo value of 8 ppm.

Bedrock geology in the area is mapped by Johns (2000) as undifferentiated granite. Ontario Geological Survey (1996) shows a north trending magnetic high which parallels regional faults and Matachewan diabase intrusions (Johns 2000). Quaternary cover in the area consists of relatively widespread ice-contact deposits, which may be influencing the geochemical results to some degree.

As of February 2001 this area was available for staking.

Area 11: Campbell Lake Area; Cu, Ni, Cr, Cd, REE, Ag

This anomaly is focussed on Campbell Lake at site 1648. This site is highly anomalous in Ni (127.2 ppm), Cr (199 ppm), Cd (2.31 ppm) and REEs (219.59 ppm). It is anomalous in Li and Co, and elevated in Cu (111.4 ppm). Site 1567 to the northeast is elevated in Cu (86.9 ppm). Approximately 2 km to the west, site 1796 is anomalous in Ni (78.4 ppm) and site 1844 is anomalous in Ni (119.2 ppm) and highly anomalous in Zn (285 ppm).

A group of 6 lakes to the north of site 1648 contain elevated levels of Ni. Many of these lakes, however, have high LOI values (>65%), which may contribute to scavenging of Ni and create an "anomalous" area which is not proximal to mineralization.

Finally, 6 lakes to the northeast contain elevated to highly anomalous levels of Ag. The quality control data for this series indicates analytical drift, suggesting that many of these results may be spurious, and should be treated with caution.

The main bedrock unit underlying this area is Timiskaming conglomerate which overlies mafic to intermediate and felsic to intermediate metavolcanic rocks. The area is cut by a northeast trending fault, and 2 northeast trending shear zones (Bright 1970). Site 1648 lies directly above the fault, and is adjacent to a drill hole and an exploration pit.

As of February 2001, this area had been fully staked.

Area 12: West Shining Tree Lake Area; Cu, Cd, Zn, ±Cr, ±REE

This anomaly is quite diffuse and most likely represents an area with an elevated background level of Cu, Cd and Zn. There are 17 lakes with elevated to highly anomalous values for Cu, 9 for Zn and 9 for Cd. Of particular interest in this area are 3 lakes. Site 1037 has 205.2 ppm Cu, 273 ppm Zn, 3.62 ppm Cd and 133 ppm Cr. This site is also highly anomalous in REEs, Y and Be. The REE results may represent an area of hyrdothermal alteration of the mafic to intermediate metavolcanic bedrock. Johns (2000) reports a Cu-Au-Zn occurrence to the south of this site. Site 183 is anomalous in Cu (135.8 ppm) and highly anomalous in Zn (481 ppm) and Cd (3.94 ppm). Site 645 is anomalous in Cu (124.0 ppm) and anomalous in Cd (1.56 ppm).

In addition to these 3 lakes, site 53 has a highly anomalous value for Cr (351 ppm). This site is located adjacent to an intrusion of Nipissing gabbro (Johns 2000).

It should be noted that many of the lakes in this area exhibit high LOI values which may be partially influencing some of the analytical results. However, of the 17 lakes with high Cu values only 4 have elevated LOI. A similar result is noted for both Cd and Zn. Readers are encouraged to examine all available data when evaluating the results for this area.

As of February 2001, a large portion of the eastern part of this area had been staked.

Area 13: Halliday Lake Area; Cd, Cr, Cu, Mo, Ni, Zn

This is a single-site anomaly (site 1872) in southwestern Halliday Township. It contains elevated levels of Cr, Ni and Zn, anomalous levels of Cu and highly anomalous levels of Cd and Mo. This sample also returned a very high value for LOI (82.42%), which suggests that some of the anomalous values may be attributable to organic scavenging. The bedrock geology is mapped as rhyolite to dacite metavolcanic rocks (Bright 1970) and Ontario Geological Survey (1996) shows a small magnetic anomaly approximately 650 m in width immediately to the southwest of the site and a larger anomaly farther to the south-southwest. As of February 2001, this site was available for staking; a large group of claims covered the ground to the west and southwest.

Area 14: Southwest Mistinikon Lake; Au (Fire Assay), Au (INAA)

Site 1183 in southeast Doon Township returned highly anomalous values of 24 ppb and 25 ppb for Au by the fire assay and INAA analytical methods respectively. The geology of the area is mapped as Huronian metasediments consisting of siltstone, lithic arkose and diamictite. A north-trending lineament cuts through the area (Junilla 1990). Ontario Geological Survey (1996) shows a magnetic lineament which parallels a number of the regional northwest trending faults. Site 1183 occurs near the intersection of the north and northwest lineaments, which may provide a conduit for the transport of hydrothermal fluids. As of February 2001, this area was fully open to staking.

Area 15: Kame Lake Area; Au (Fire Assay)

Three sites in the Kame Lake area returned weakly elevated values for Au. Sites 1415, 1417 and 1418 all reported 5 ppb Au by the fire assay analytical method. Bedrock in this area is well exposed Timiskaming metasedimentary rocks consisting of diamictite and lithic wacke (Junilla 1990). The fact that the results are from 3 separate lakes, 2 of which are hydrologically separated, is encouraging. However, giving consideration to the estimated precision of this method (±5 ppm), caution in interpreting these results is emphasized.

As of February 2001, parts of this area were available for staking.

Area 16: Kapiskong Lake Area; REE, Be, ±Zr, ±Y

Three sites in this area comprise a REE anomaly. Site 333 is anomalous in REEs (184.11 ppm) and elevated in Be (0.9 ppm) and Y (23.83 ppm). Site 332 is elevated in REEs only (127.08 ppm) and site 1132 is elevated in REEs (122.12 ppm), Be (0.7 ppm) and Zr (4.1 ppm).

The bedrock geology is mapped as unsubdivided granitic rocks (Bright 1984). The area contains an esker complex, ice-contact deposits and minor till over bedrock (Alcock 1991). Caution should be exercised in the interpretation of these results due to the glacial material in the area, but the thin cover of overburden adjacent to the sites is favourable for a bedrock source to the anomalies.

As of February 2001 this area was available for staking.

Area 17: Southeast Sheard Township Area; Ag, REE, Ni, Cu, Zn

The southeastern part of Sheard Township is underlain by mafic to intermediate metavolcanic and granitic rocks. Five lakes in this area (1921 to 1925) returned anomalous to highly anomalous values for Ag, ranging from 4.28 to 9.11 ppm. Site 1923 was also sampled by the GSC, but was not anomalous in Ag. Quality control for silver indicated analytical drift in this range and suggests that the results may be spurious; they should be interpreted with some caution.

Sites 1907, 1908, 1915 and 1923 returned elevated to anomalous results for REEs (126.92, 160.81, 125.60 and 151.45 ppm respectively), with elevated Y at site 1908 (21.83 ppm).

Site 1913 was elevated in Cu (94.7 ppm) and Zn (154 ppm) and anomalous in Ni (82.7 ppm). Gupta (1991) shows a magnetic high along the border between Sheard and Ogilvie Townships, as well as a magnetic lineament extending to the northwest.

As of February 2001 this area had been staked.

CONCLUSIONS

Preliminary interpretation of the lake sediment analytical results for the Shining Tree area indicates the presence of 17 anomalous areas. The anomalous areas contain primarily multi-element, multi-site anomalies, many of which are considered priority areas for exploration activities. Some single element and/or single site anomalies may also warrant further investigation, particularly if they are located in regions of favourable geology or known mineral occurrences. The treatment of available data is not considered to be exhaustive and the reader is encouraged to carry out further investigations.

REFERENCES

Abraham, E.M. 1953. Township of Sothman, District of Sudbury; Ontario Department of Mines, Map 1953-03, scale 1:12 000.

Alcock, P.W. 1991. Quaternary geology of the Shining Tree area; Ontario Geological Survey, Open File Report 5810, 120p.

Ayer, J.A., Trowell, N.F., Madon, Z., Kamo, S., Kwok, Y.Y. and Amelin, Y. 1999. Compilation of the Abitibi greenstone belt in the Timmins-Kirkland Lake area: revisions to stratigraphy and new geochronological results; *in* Summary of Field Work and Other Activities 1999; Ontario Geological Survey, Open File Report 6000, p.4-1 to 4-14.

Bajc, A.F., Hamilton, S.M., Ayer, J. and Jensen, L.S. 1996. New exploration targets in the Peterlong Lake-Radisson Lake Area, southern Abitibi subprovince; till, lake sediment and lake water sampling programs; Ontario Geological Survey, Open File Report 5942, 129p.

Barnett, P.J., Henry, A.P. and Babuin, D. 1991. Quaternary geology of Ontario, east-central sheet; Ontario Geological Survey, Map 2555, scale 1:1 000 000.

Bright, E.G. 1970. Geology of Halliday and Midlothian Townships, Districts of Sudbury and Timiskaming; Ontario Department of Mines, Report 79, 33p. Accompanied by Map 2187, scale 1:31 680.

Bright, E.G. 1984. Geology of the Ferrier Lake-Canoeshed Lake area, District of Sudbury; Ontario Geological Survey, Report 231, 60p. Accompanied by Maps 2289, 2290 and 2291, scale 1:31 680.

Carter, M.W. 1977. Geology of Macmurchy and Tyrrell Townships, Districts of Sudbury and Timiskaming; Ontario Division of Mines, Report 152, 69p. Accompanied by Map 2365, scale 1:31 680.

Carter, M.W. 1980. Geology of Connaught and Churchill Townships, District of Sudbury; Ontario Geological Survey, Report 190, 81p. Accompanied by Map 2414, scale 1:31 680.

Carter, M.W. 1983. Geology of Natal and Knight Townships, Districts of Sudbury and Timiskaming; Ontario Geological Survey, Report 225, 74p. Accompanied by Map 2465, scale 1:31 680.

Carter, M.W. 1986. Geology of Cabot and Kelvin Townships, District of Sudbury; Ontario Geological Survey, Report 249, 52p. Accompanied by Map 2470, scale 1:31 680.

Carter, M.W. 1987. Geology of the Shining Tree Area, Districts of Sudbury and Timiskaming; Ontario Geological Survey, Report 240, 48p. Accompanied by Map 2510, scale 1:50 000.

Dyer, R.D. and Breaks, F.W. 1996. Potential Sn-Mo-REE mineralization in the Wabigoon Subprovince, east of Ignace, Ontario: Preliminary results from the Wawang Lake-English River lake sediment survey; Ontario Geological Survey, Open File Report 5940, 80p.

Fortescue, J.A.C. 1988. A regional geochemical survey of a part of the Batchawana greenstone belt, District of Algoma; *in* Summary of Field Work and Other Activities 1988, Ontario Geological Survey, Miscellaneous Paper 141, p.478-481.

Gupta, V.K. 1991. Shaded image of total magnetic field of Ontario, east-central sheet; Ontario Geological Survey, map 2585, scale 1:1 000 000.

Hamilton, S.M. 1997. A high density lake sediment and water geochemical survey of 32 geographic Townships in the Montreal River headwaters area, centered on Gowganda, Ontario; Ontario Geological Survey, Open File Report 5962, 156p.

Hornbrook, E.H.W. and Friske, P.W.B. 1988. Regional lake sediment and water geochemical reconnaissance data, Gogama area, Ontario (41P, part of 31M); Geological Survey of Canada, Open File 1640.

Jensen, L.S. 1996a. Precambrian geology of Montrose Township; Ontario Geological Survey, Preliminary Map P.3354, scale 1:20 000.

Jensen, L.S. 1996b. Precambrian geology of Bannockburn Township; Ontario Geological Survey, Preliminary Map P.3355, scale 1:20 000.

Johns, G.W. 1999. Precambrian geology, Shining Tree area (east half); Ontario Geological Survey, Preliminary Map P.3389, scale 1:30 000.

Johns, G.W. 2000. Precambrian geology, Shining Tree area (west half); Ontario Geological Survey, Preliminary Map P.3420, scale 1:30 000.

Junilla, R.M. 1990. Precambrian geology, Yarrow and Doon Townships, with emphasis on the Huronian Supergroup; Ontario Geological Survey, Report 277, 33p. Accompanied by Map 2546, scale 1:20 000.

Lovell, H.L. 1967. Geology of the Matachewan area, District of Timiskaming; Ontario Department of Mines, Geological Report 51, 61p. Accompanied by Maps 2109 and 2110, scale 1:31 680.

Ontario Geological Survey 1991. Bedrock Geology of Ontario, east-central sheet; Ontario Geological Survey, Map 2543, scale 1:1 000 000.

Ontario Geological Survey 1996. Shining Tree Area, Ontario airborne magnetic and electromagnetic surveys, processed data and derived products, Archean and Proterozoic "greenstone" belts; ERLIS Data set CD-ROM 1003, Ontario Geological Survey, Sudbury.

Ontario Geological Survey 1997. Matachewan Area, Ontario airborne magnetic and electromagnetic surveys, processed data and derived products, Archean and Proterozoic "greenstone" belts; ERLIS Data set CD-ROM 1014, Ontario Geological Survey, Sudbury.

Ontario Geological Survey 2001a. Peterlong Lake-Radisson Lake area high density lake sediment survey: gold and PGE data – Operation Treasure Hunt; Ontario Geological Survey, Open File Report 6053, 46p.

Ontario Geological Survey 2001b. Montreal River Headwaters area high density lake sediment survey: gold and PGE data – Operation Treasure Hunt; Ontario Geological Survey, Open File Report 6061, 49p.

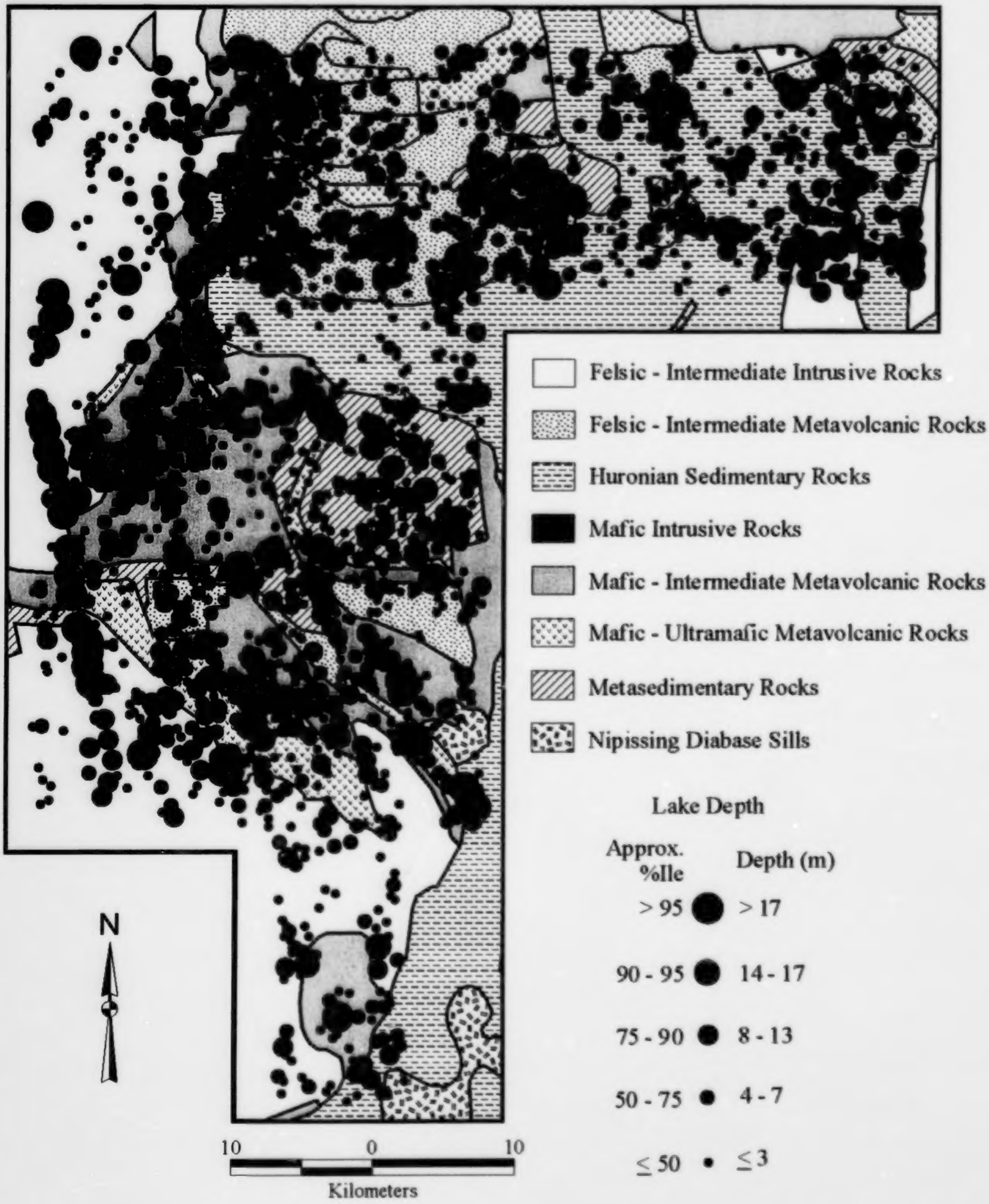
Roed, M.A. 1979. Elk Lake area (NTS 41P/NE), District of Timiskaming; Ontario Geological Survey, Northern Ontario Engineering Geology and Terrain Study 83, 18p. Accompanied by Map 5020, scale 1:100 000.

Roed, M.A. and Hallet, D.R., 1979. Westree Area (NTS 41P/SW), Districts of Sudbury and Timiskaming; Ontario Geological Survey, Northern Ontario Engineering and Geology Terrain Study 88, 17p. Accompanied by Map 5022, scale 1:100 000.

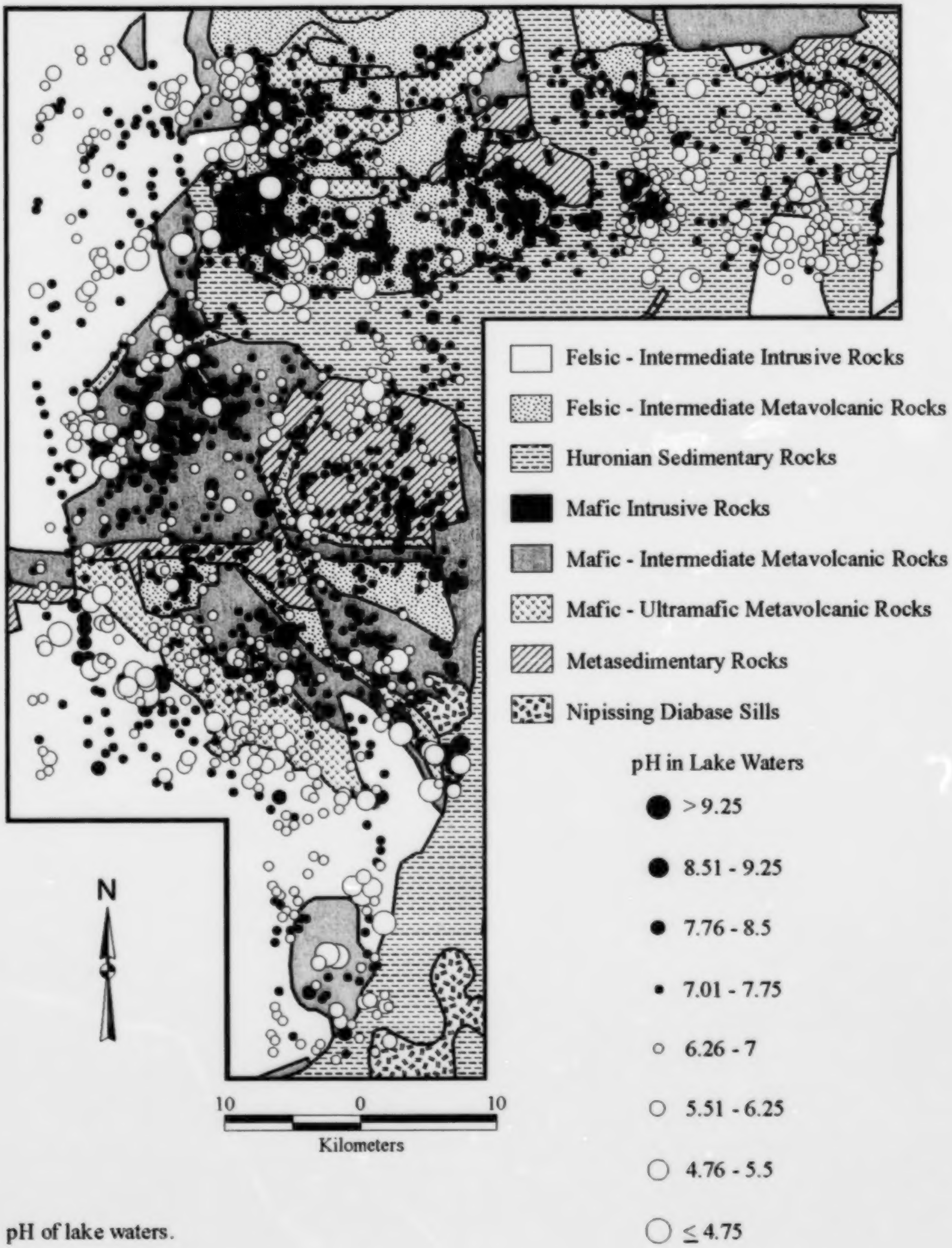
This page left blank intentionally.

APPENDIX A

Proportional Dot Maps of Lake Depth, pH and Conductivity

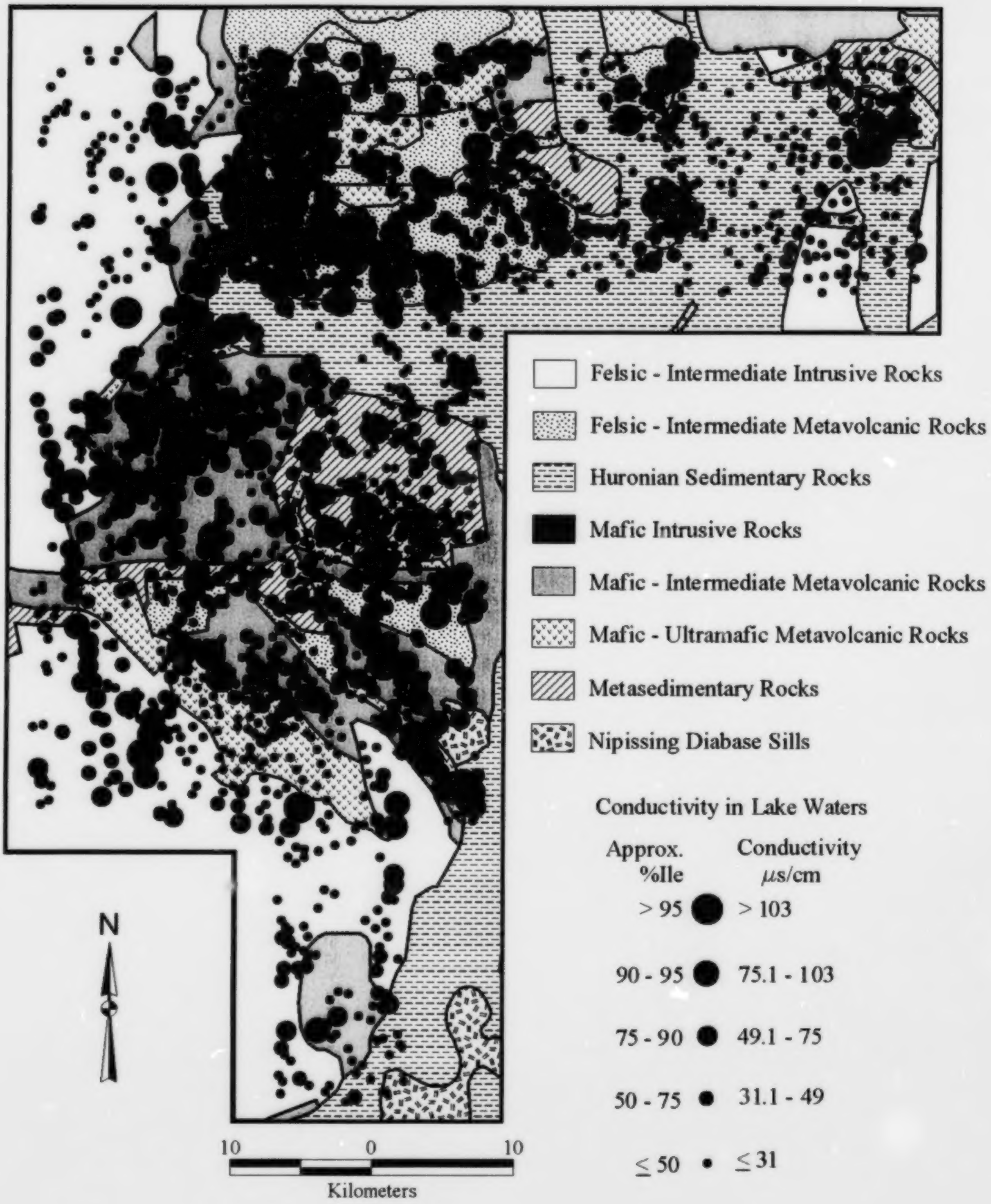

Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Lake Depth
Approx. %Ile
Depth (m)
> 95
> 17
90 - 95
14 - 17
75 - 90
8 - 13
50 - 75
4 - 7
≤ 50
≤ 3
N
10
0
10
Kilometers

Lake depth.



Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
pH in Lake Waters
> 9.25
8.51 - 9.25
7.76 - 8.5
7.01 - 7.75
6.26 - 7
5.51 - 6.25
4.76 - 5.5
≤ 4.75
N
10
0
10
Kilometers

pH of lake waters.

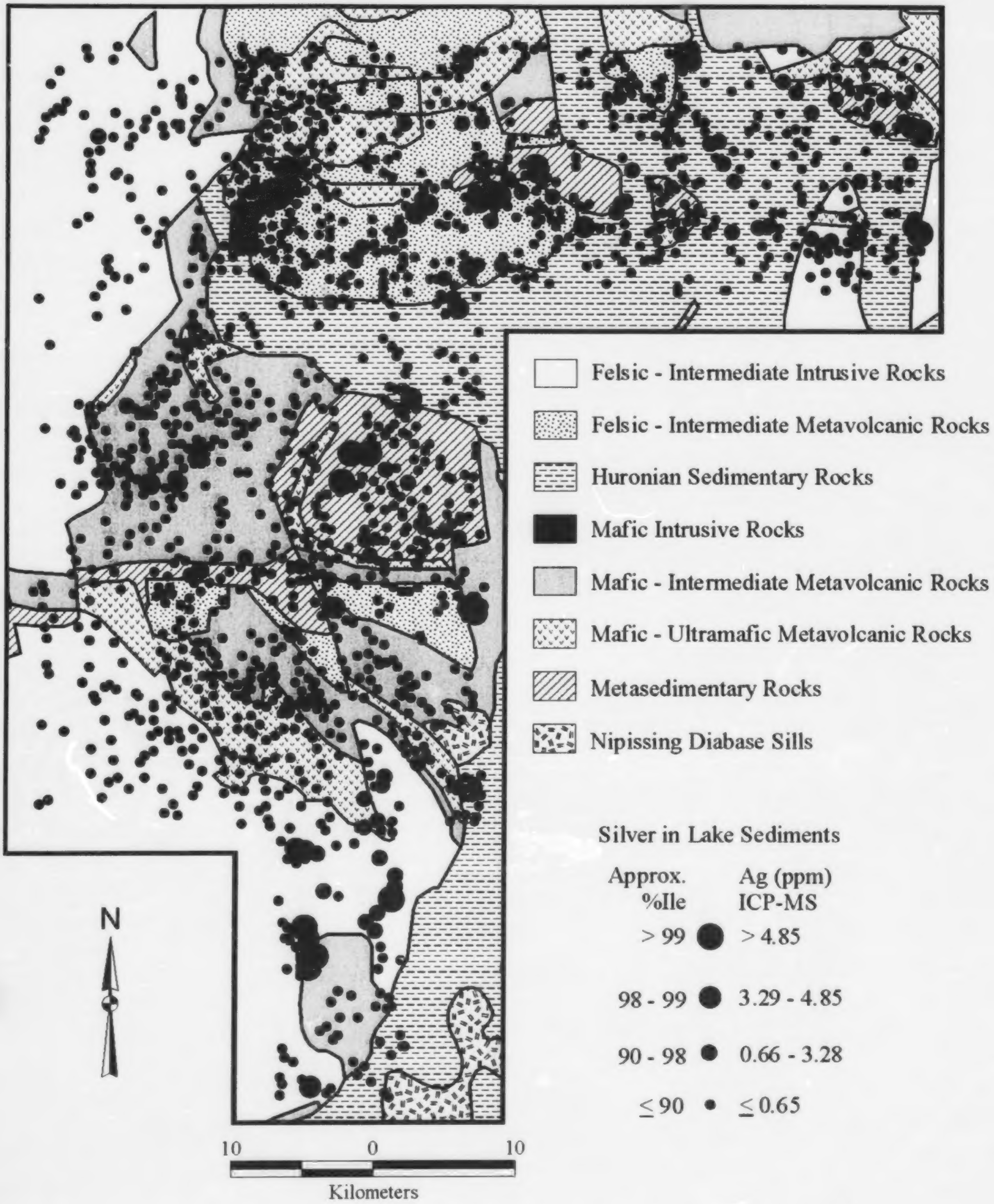

Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Conductivity in Lake Waters
Approx. %Ile
Conductivity μs/cm
> 95
> 103
90 - 95
75.1 - 103
75 - 90
49.1 - 75
50 - 75
31.1 - 49
≤ 50
≤ 31
N
10
0
10
Kilometers

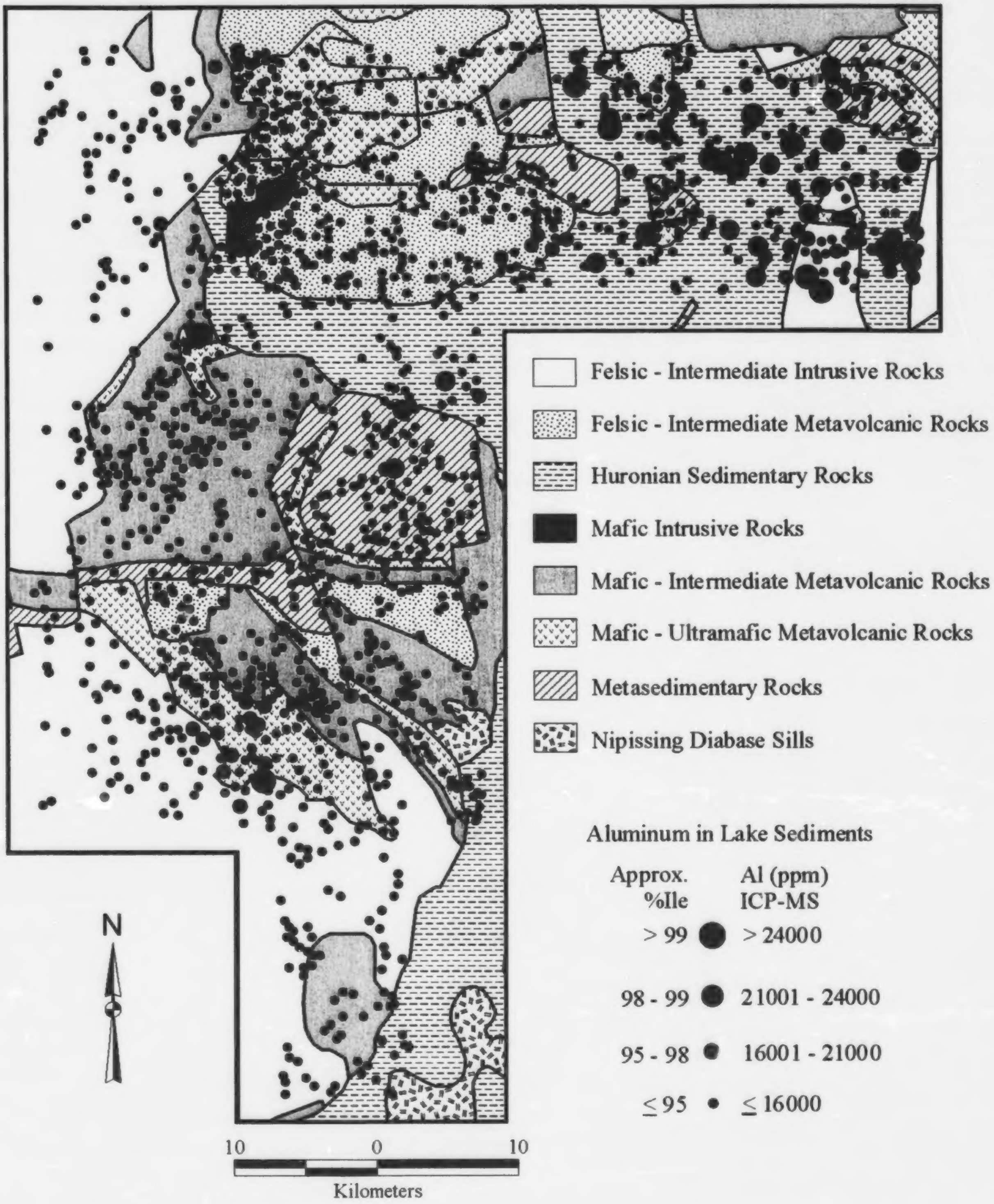
Electrical conductivity of lake waters.

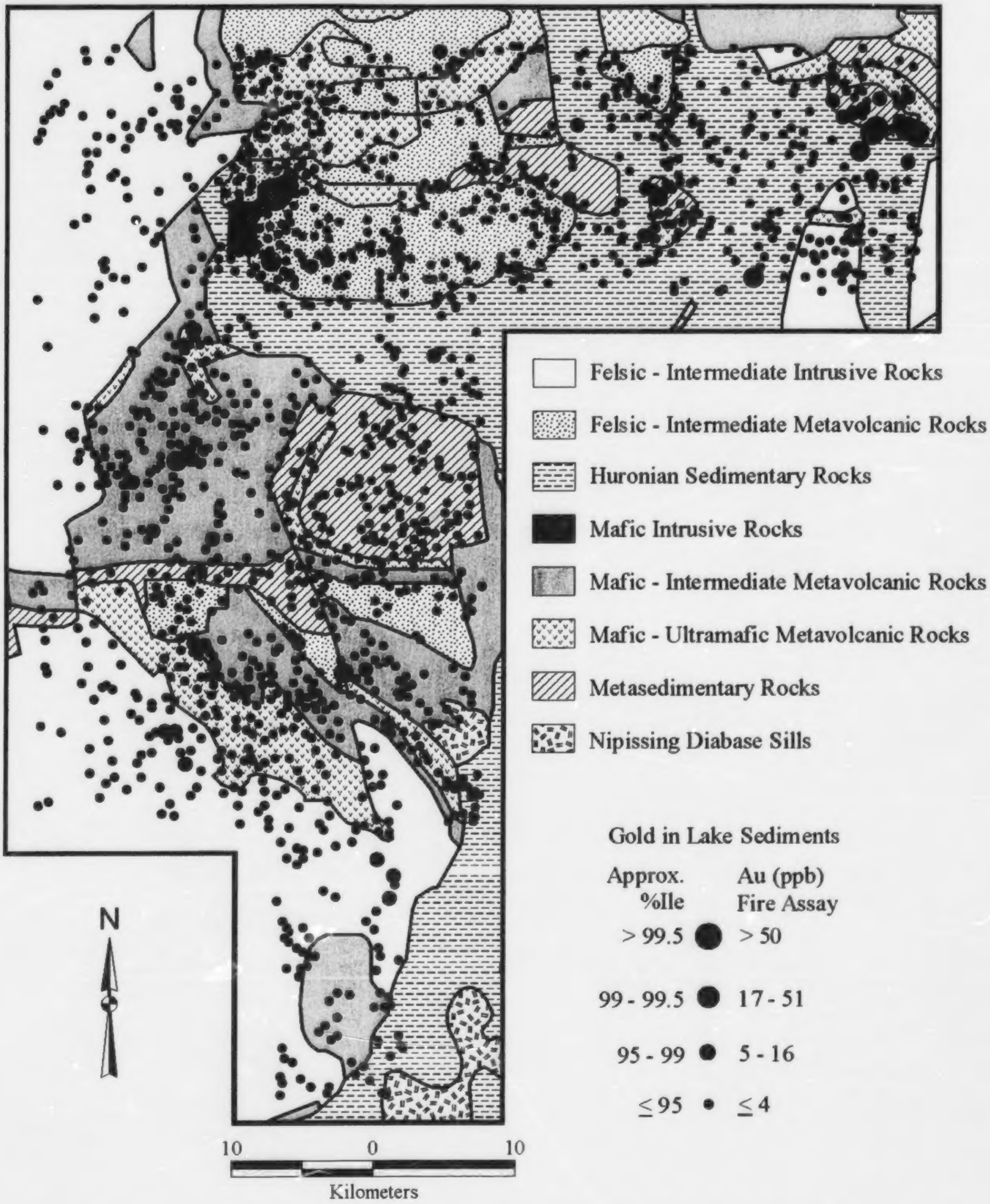
APPENDIX B

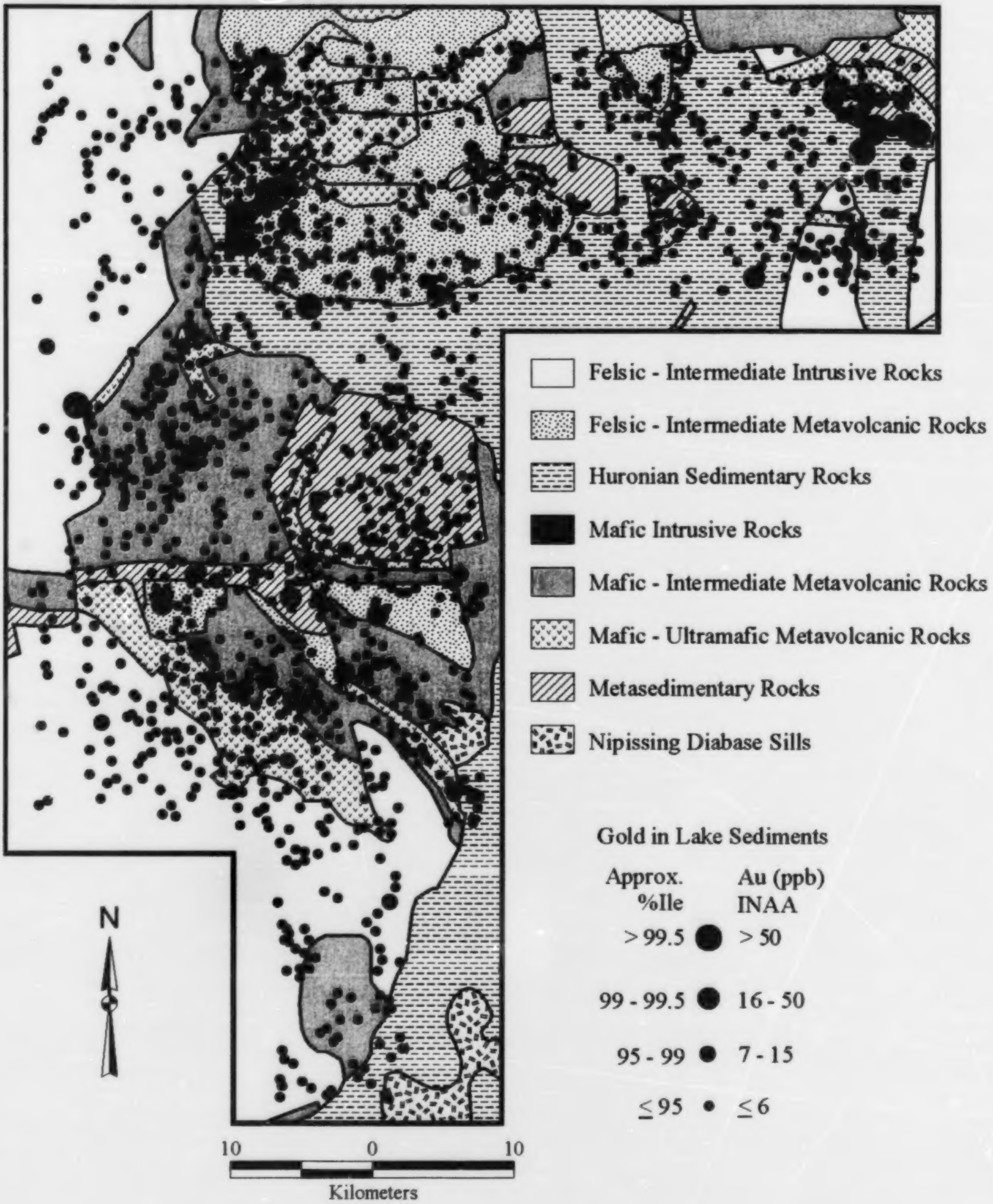
Proportional Dot Maps of Lake Sediment Geochemistry

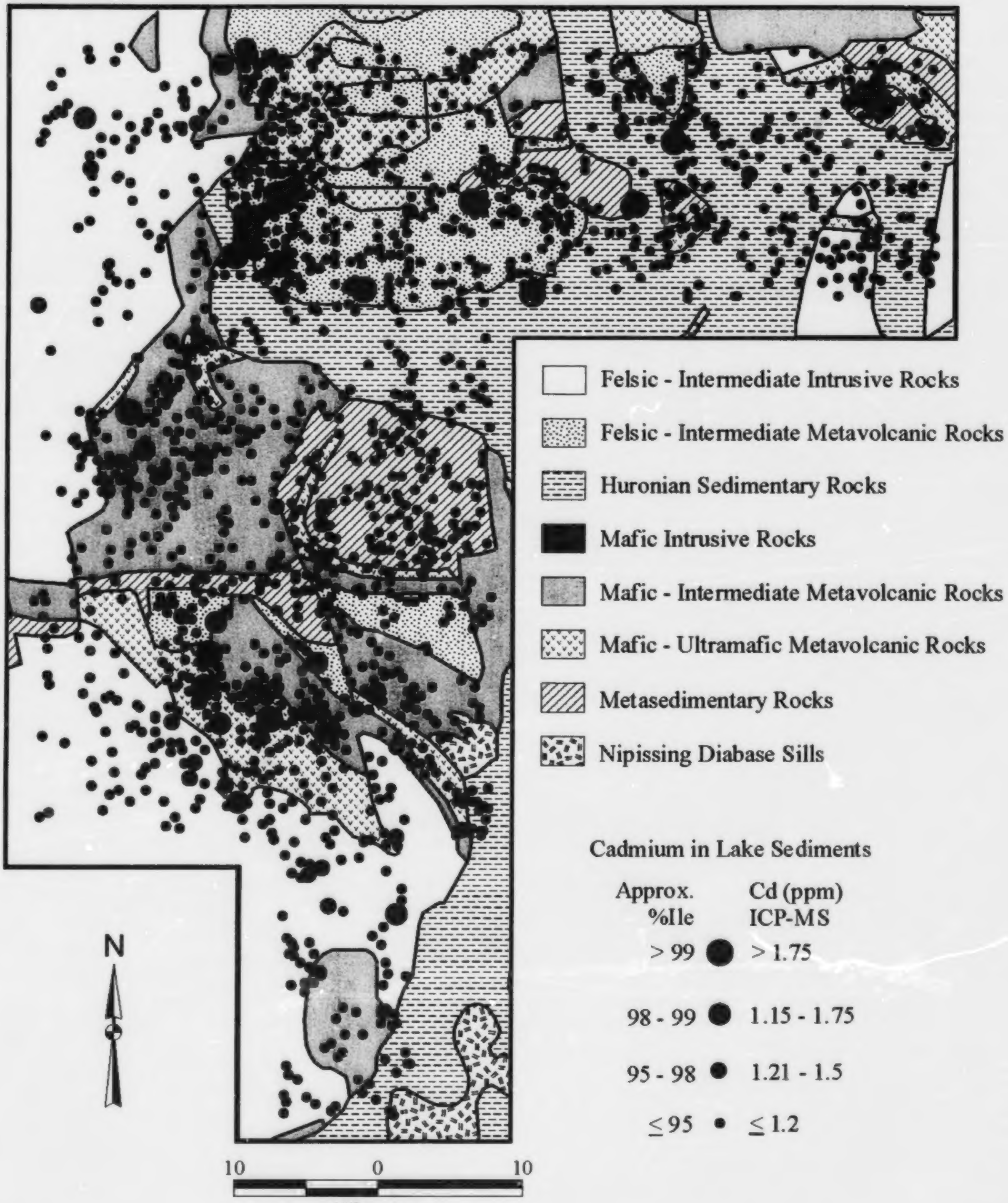
for Ag, Al, Au, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, Pb, Pd, Pt, total REE, Ti, U, V, W and Zn

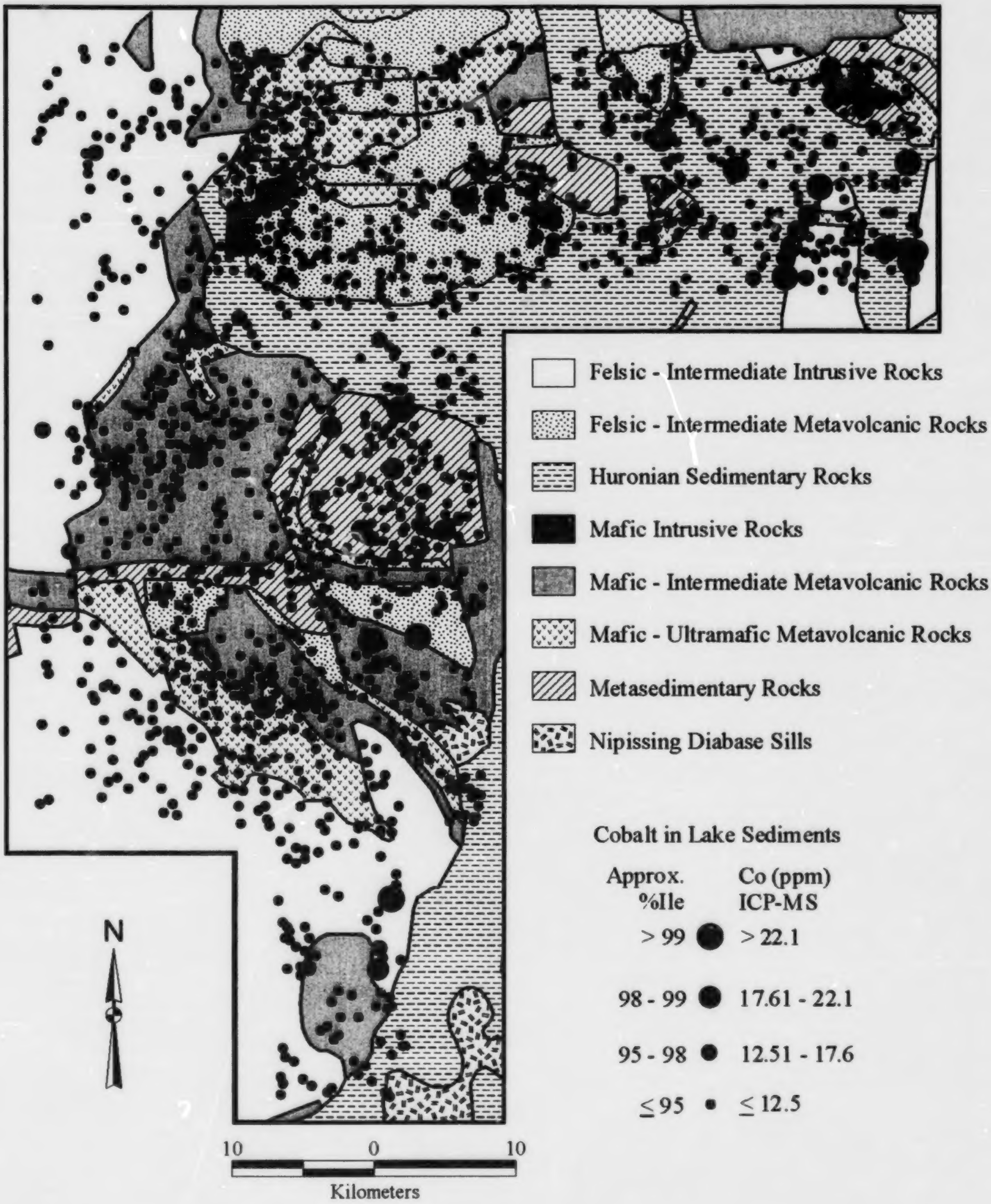

Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Silver in Lake Sediments
Approx. %Ile
Ag (ppm) ICP-MS
> 99
> 4.85
98 - 99
3.29 - 4.85
90 - 98
0.66 - 3.28
≤ 90
≤ 0.65
N
10
0
10
Kilometers

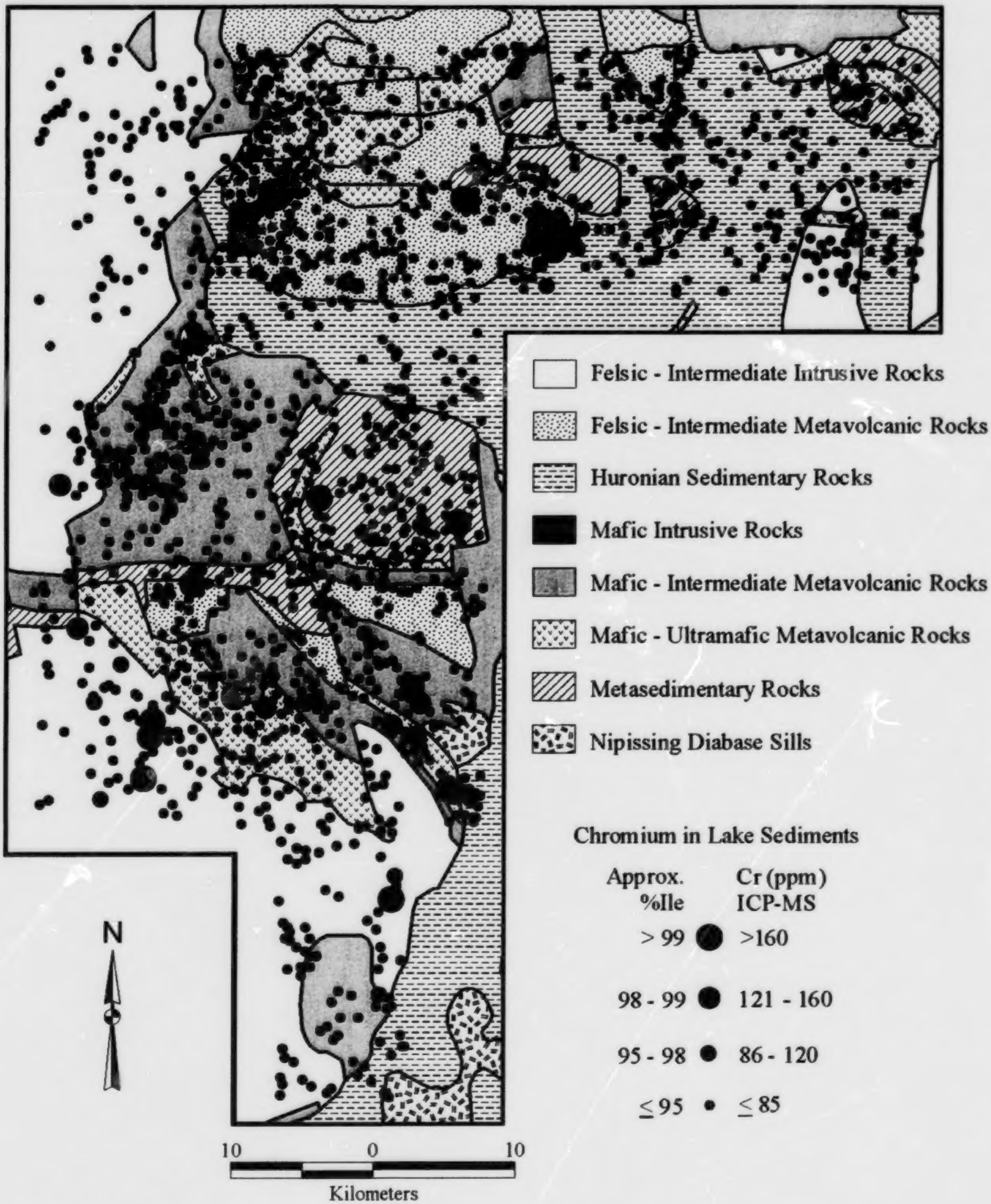

Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Aluminum in Lake Sediments
Approx. %Ile
Al (ppm) ICP-MS
> 99
> 24000
98 - 99
21001 - 24000
95 - 98
16001 - 21000
≤ 95
≤ 16000
N
10
0
10
Kilometers

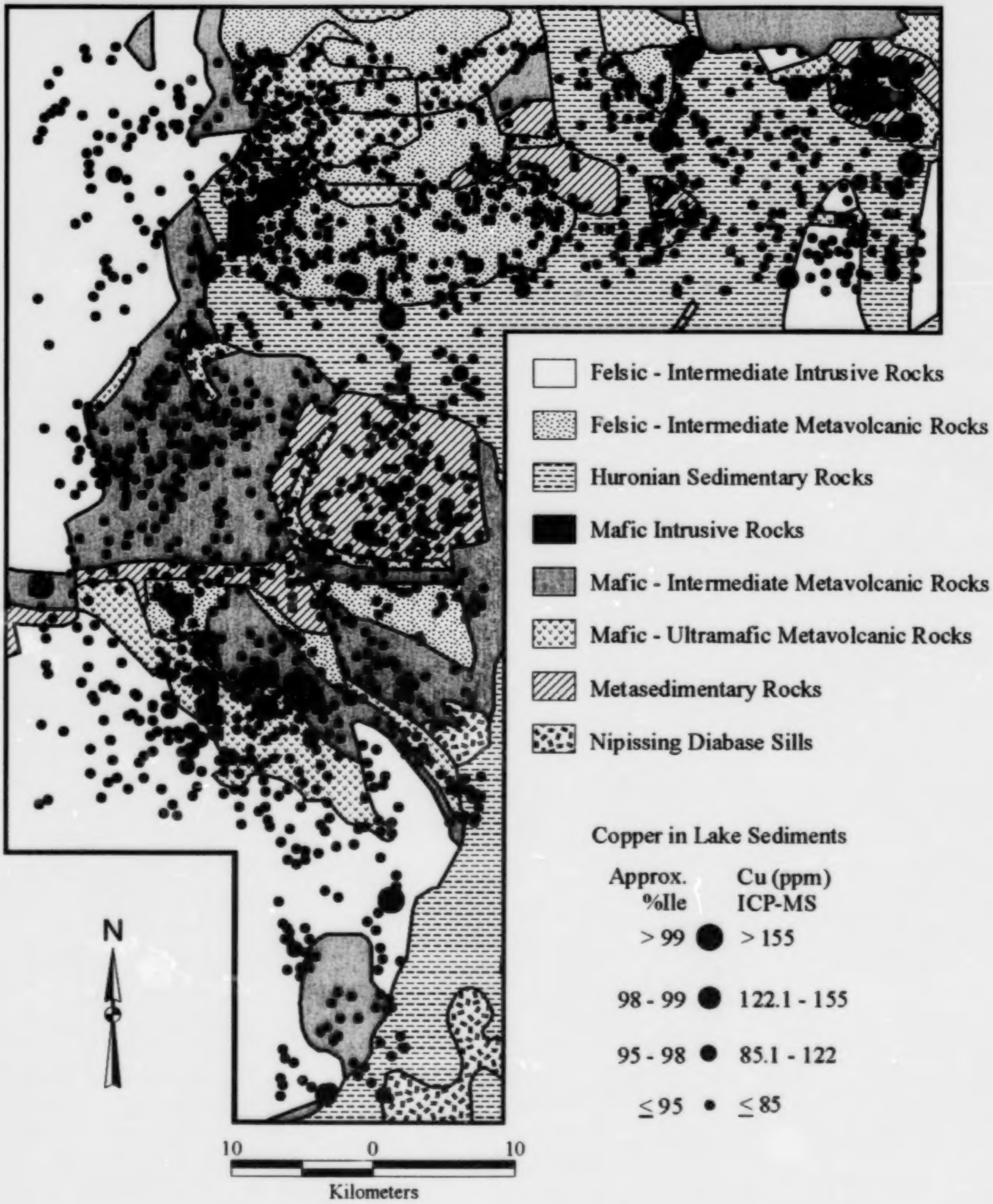

Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Gold in Lake Sediments
Approx. %Ile
Au (ppb) Fire Assay
> 99.5
> 50
99 - 99.5
17 - 51
95 - 99
5 - 16
≤ 95
≤ 4
N
10
0
10
Kilometers

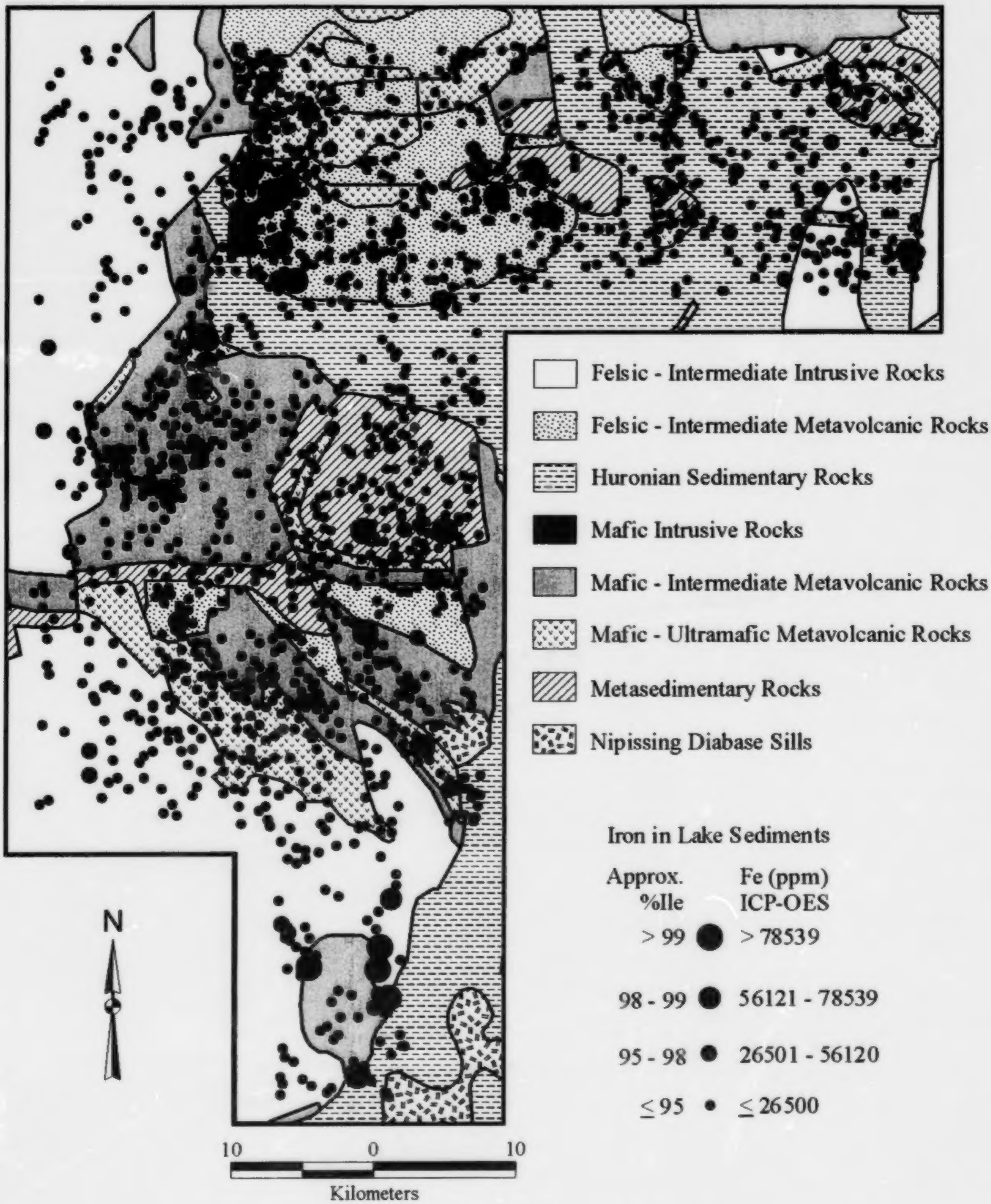

Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Gold in Lake Sediments
Approx. %Ile
Au (ppb) INAA
> 99.5 ● > 50
99 - 99.5 ● 16 - 50
95 - 99 ● 7 - 15
≤ 95 • ≤ 6
N
10
0
10
Kilometers

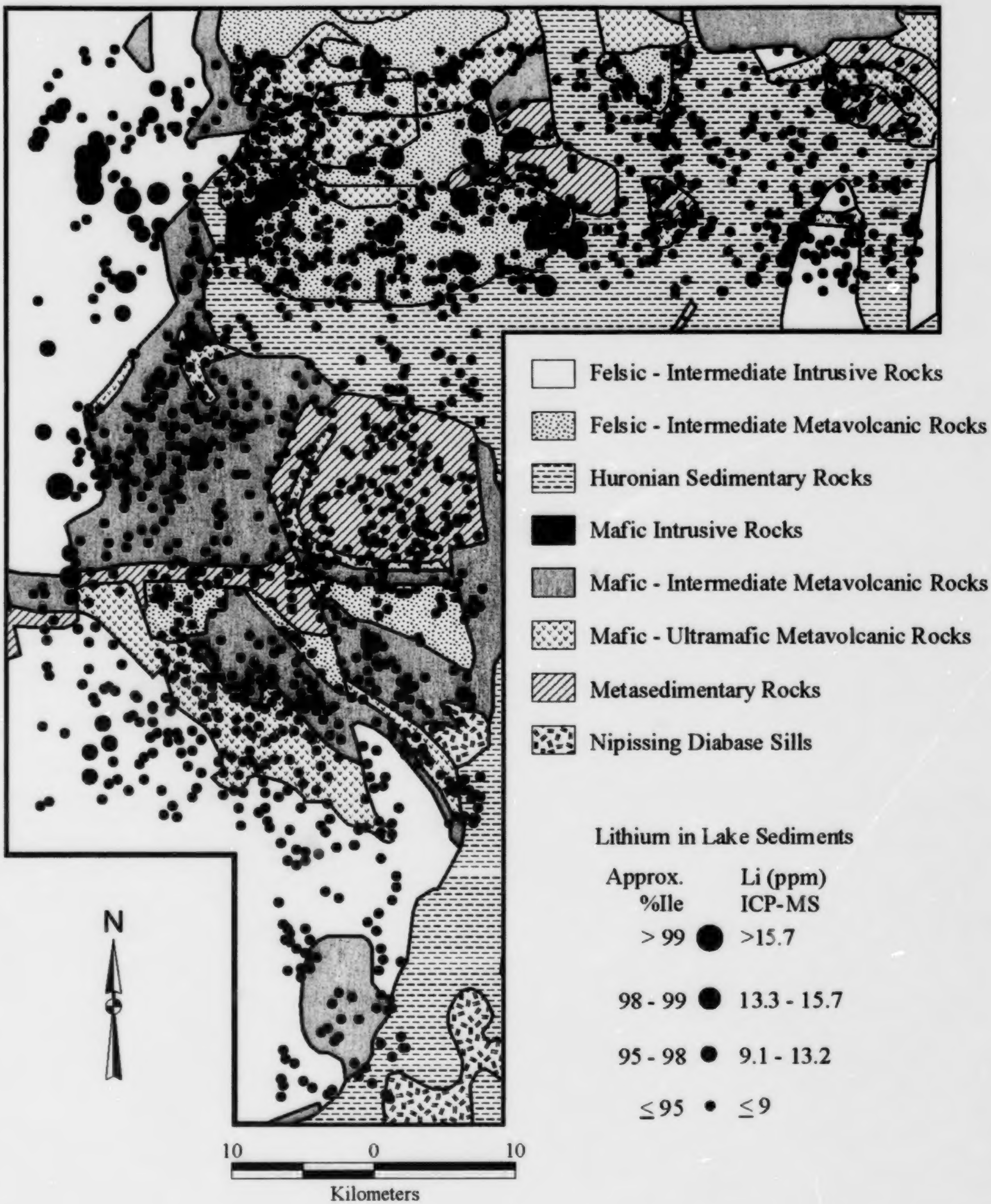

Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Cadmium in Lake Sediments
Approx. %Ile
Cd (ppm) ICP-MS
> 99 ● > 1.75
98 - 99 ● 1.15 - 1.75
95 - 98 ● 1.21 - 1.5
≤ 95 • ≤ 1.2
N
10
0
10
Kilometers

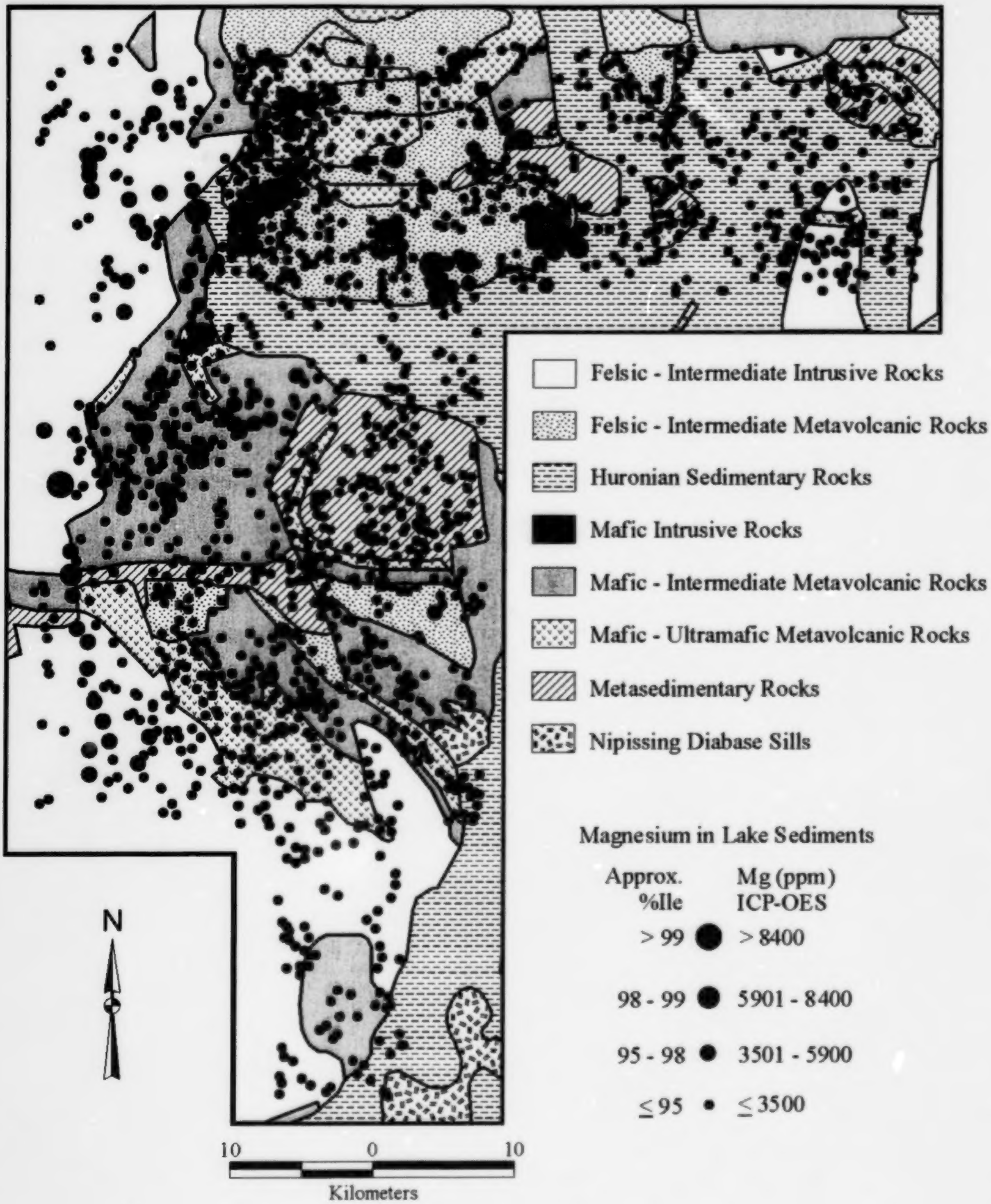

Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Cobalt in Lake Sediments
Approx. %Ile
Co (ppm) ICP-MS
> 99 ● > 22.1
98 - 99 ● 17.61 - 22.1
95 - 98 ● 12.51 - 17.6
≤ 95 • ≤ 12.5
N
10
0
10
Kilometers

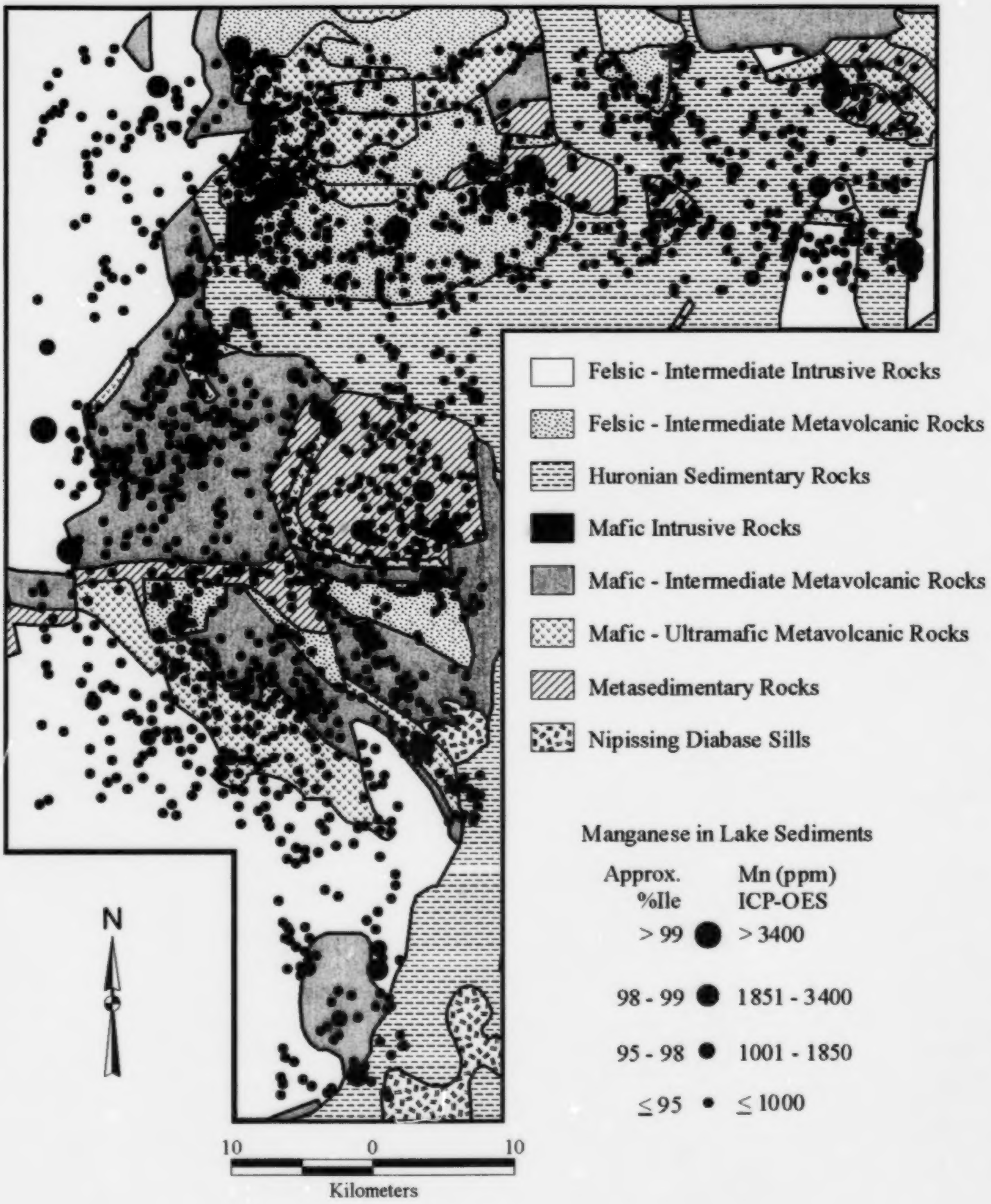

Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Chromium in Lake Sediments
Approx. %Ile
Cr (ppm) ICP-MS
> 99
>160
98 - 99
121 - 160
95 - 98
86 - 120
≤ 95
≤ 85
N
10
0
10
Kilometers

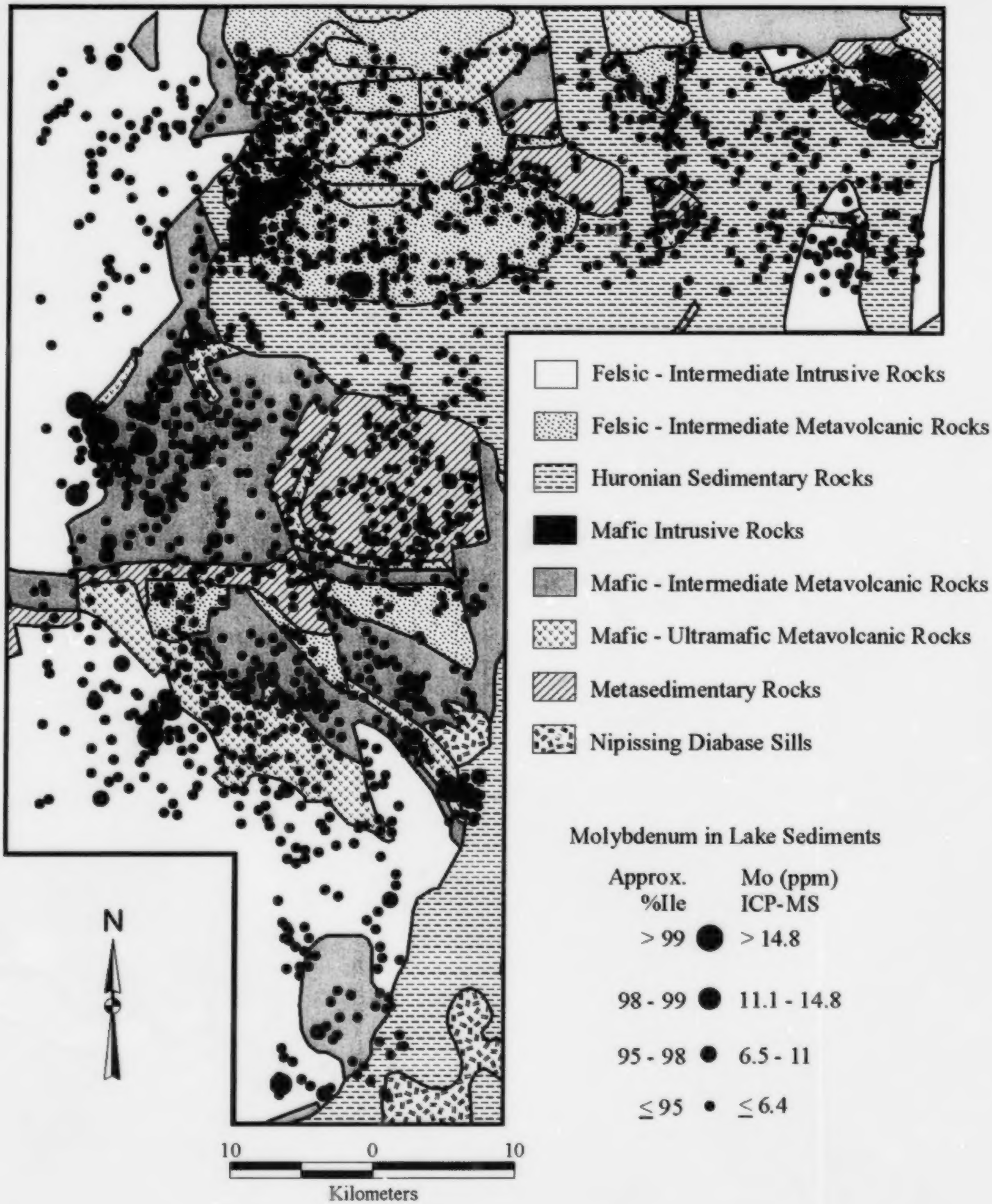

Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Copper in Lake Sediments
Approx. %Ile
Cu (ppm) ICP-MS
> 99
> 155
98 - 99
122.1 - 155
95 - 98
85.1 - 122
≤95
≤85
N
10
0
10
Kilometers

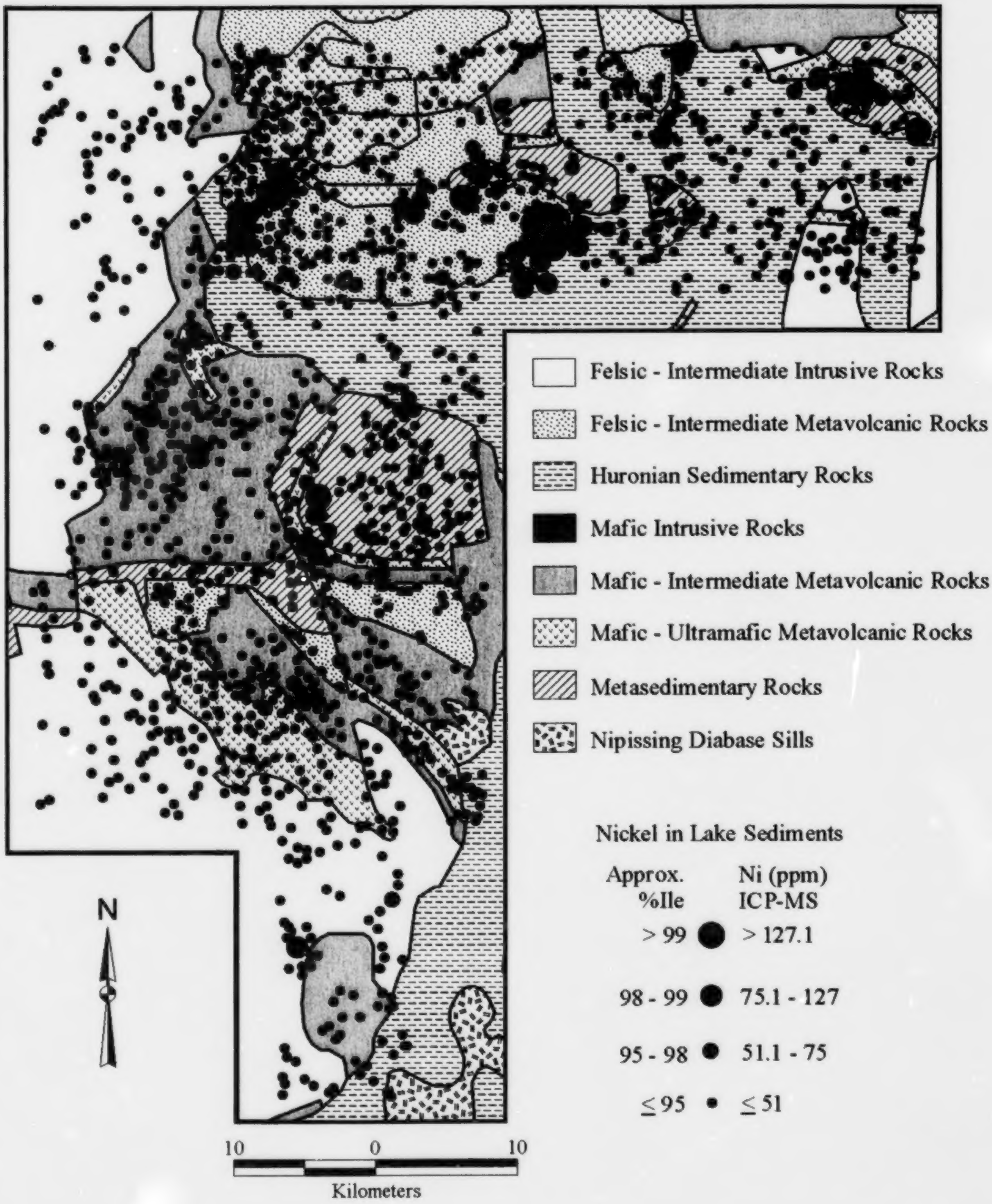

Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Iron in Lake Sediments
Approx. %ile
Fe (ppm) ICP-OES
> 99
> 78539
98 - 99
56121 - 78539
95 - 98
26501 - 56120
≤ 95
≤ 26500
N
10
0
10
Kilometers

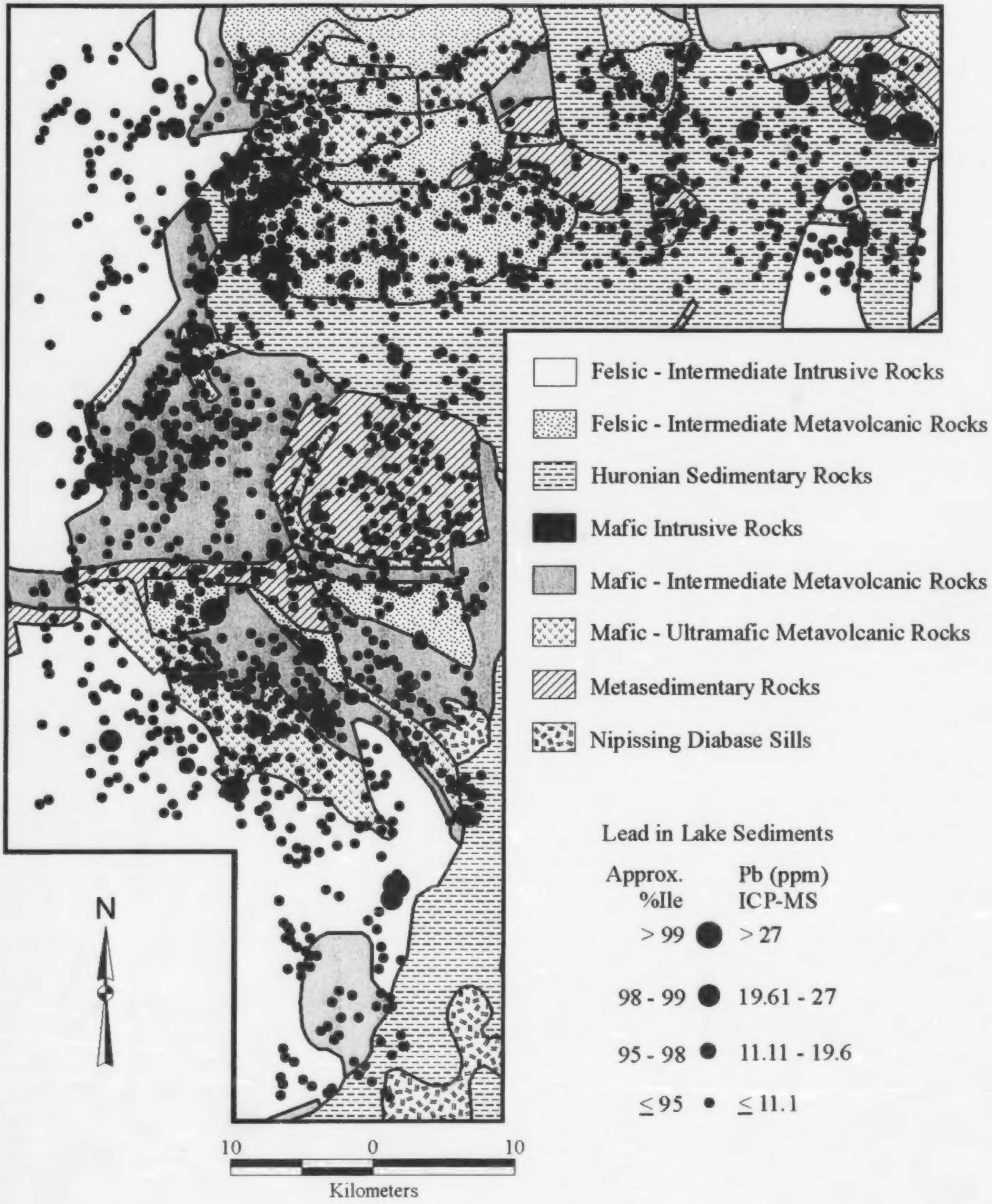

Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Lithium in Lake Sediments
Approx. %Ile
Li (ppm) ICP-MS
> 99
>15.7
98 - 99
13.3 - 15.7
95 - 98
9.1 - 13.2
≤95
≤9
N
10
0
10
Kilometers

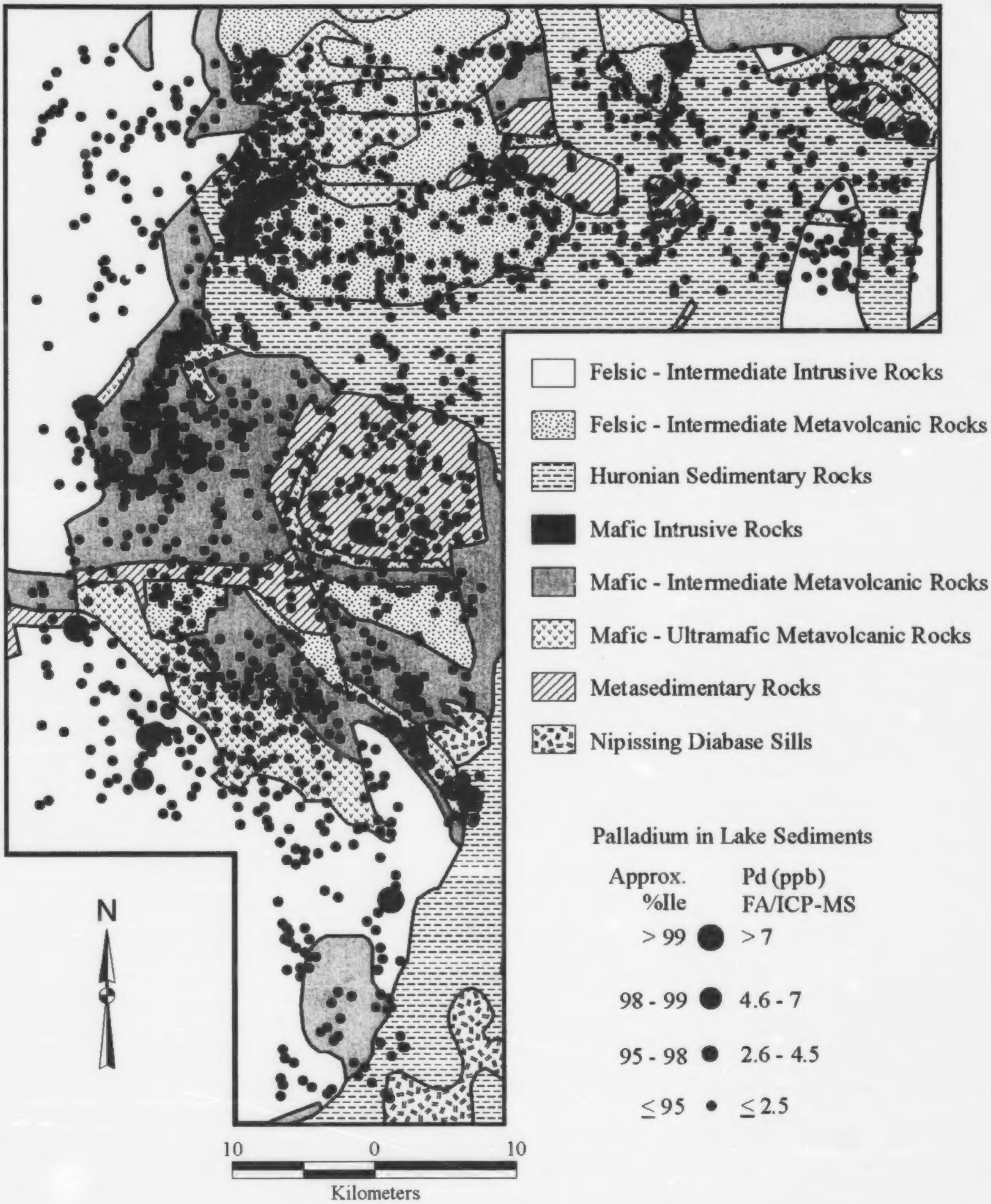

Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Magnesium in Lake Sediments
Approx. %Ile
Mg (ppm) ICP-OES
> 99 ● > 8400
98 - 99 ● 5901 - 8400
95 - 98 ● 3501 - 5900
≤ 95 • ≤ 3500
N
10
0
10
Kilometers

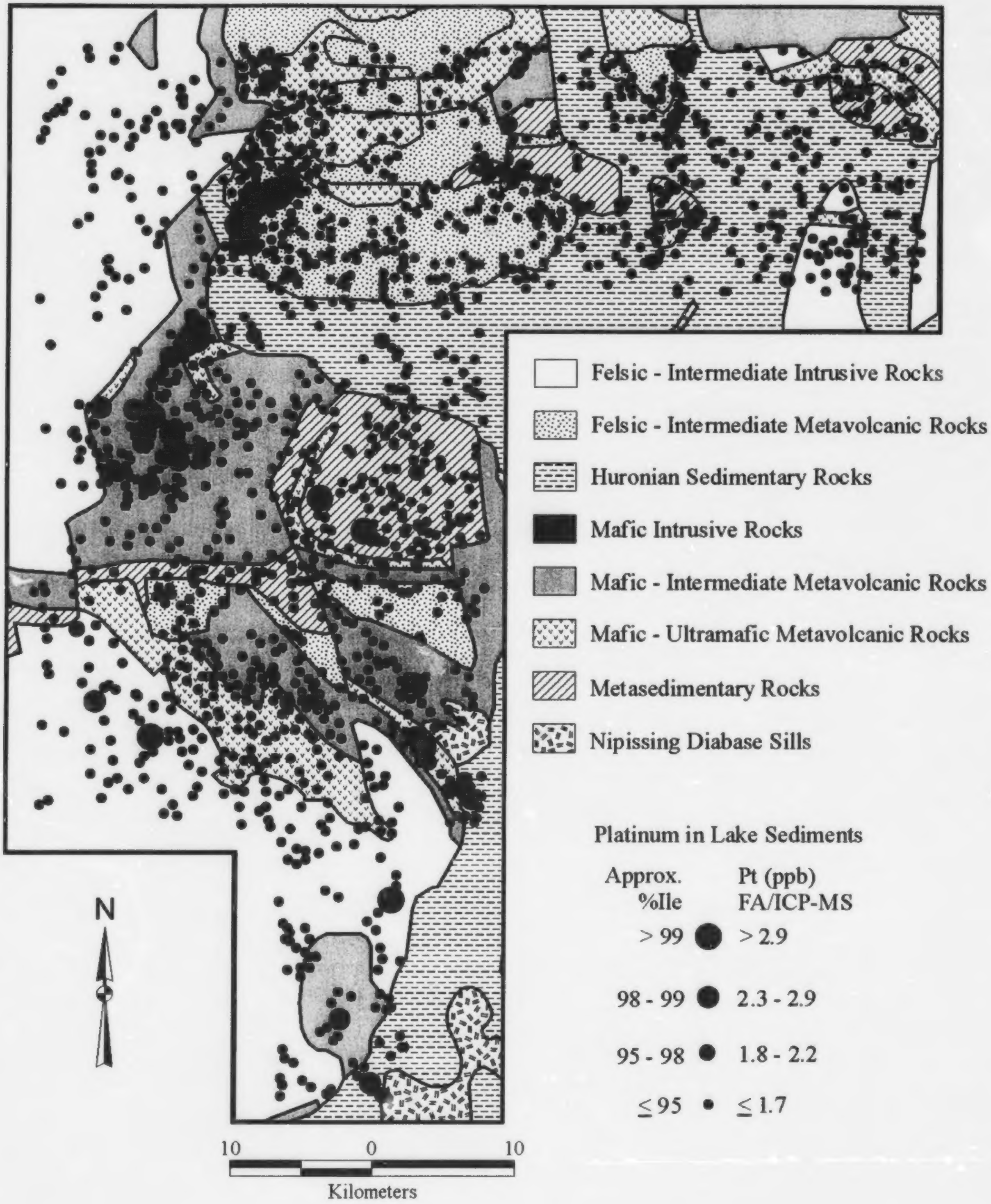

Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Manganese in Lake Sediments
Approx. %Ile
Mn (ppm) ICP-OES
> 99
> 3400
98 - 99
1851 - 3400
95 - 98
1001 - 1850
≤ 95
≤ 1000
N
10
0
10
Kilometers

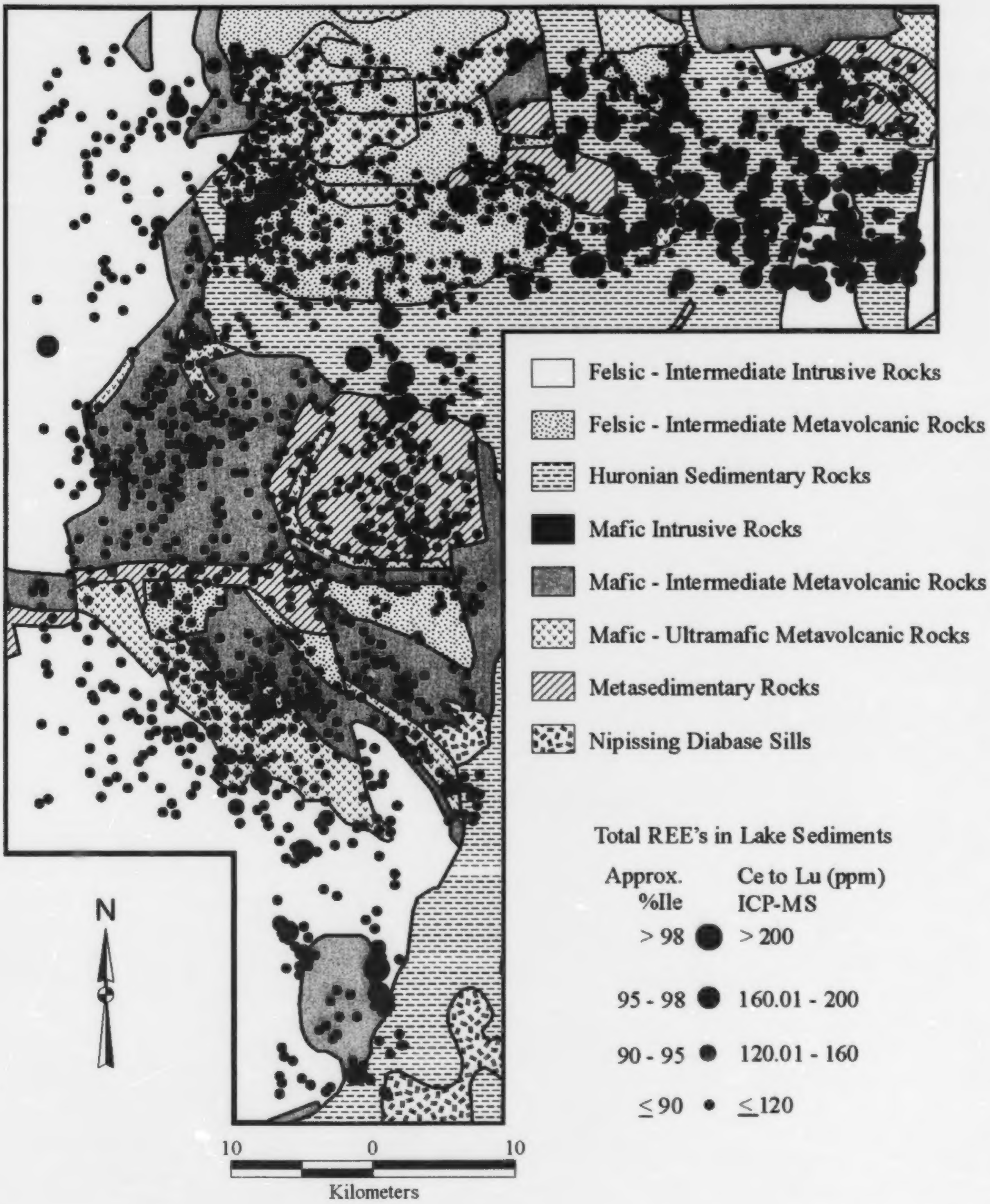

Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Molybdenum in Lake Sediments
Approx. %Ile
Mo (ppm) ICP-MS
> 99
> 14.8
98 - 99
11.1 - 14.8
95 - 98
6.5 - 11
≤ 95
≤ 6.4
N
10
0
10
Kilometers

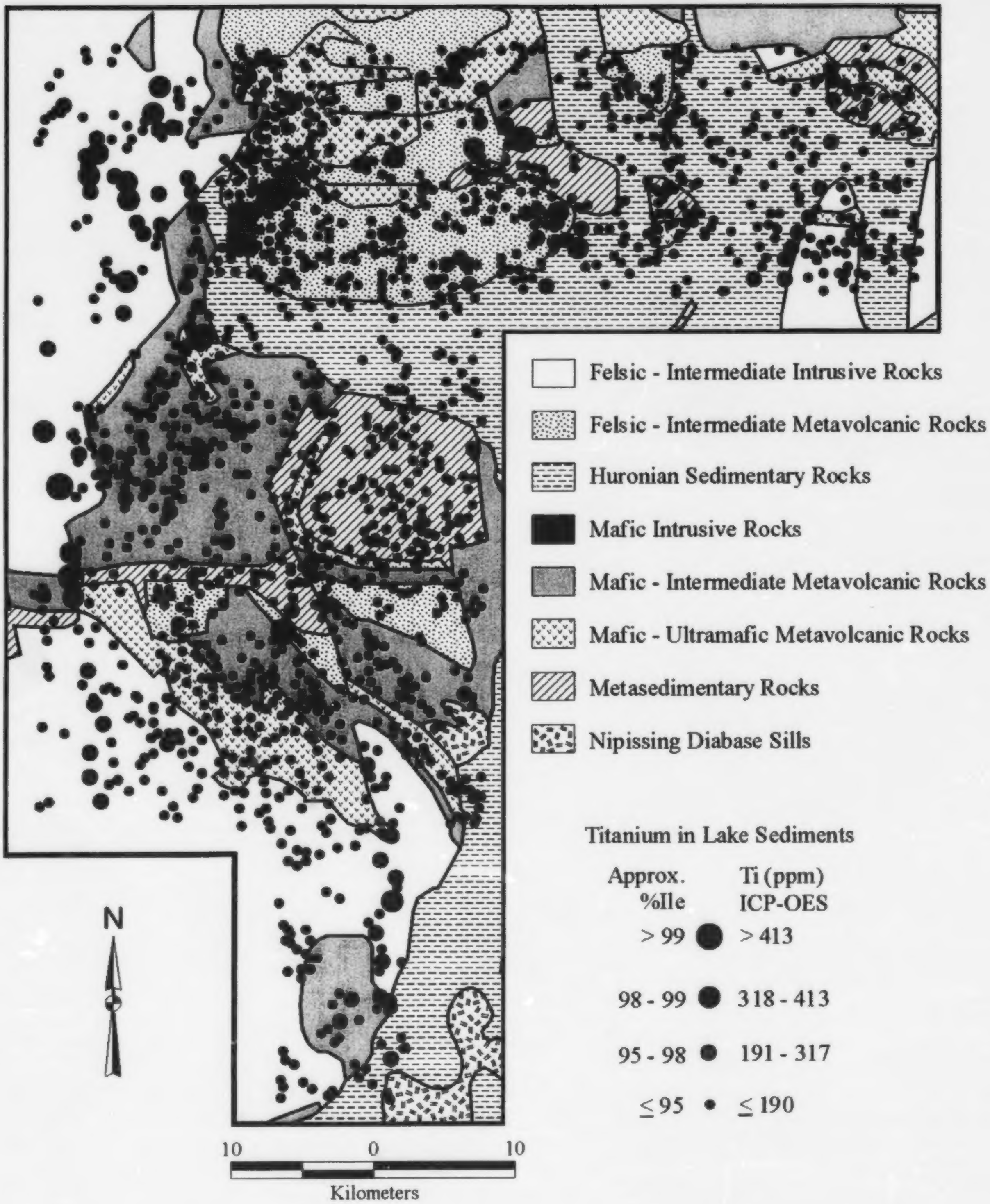

Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Nickel in Lake Sediments
Approx. %Ile
Ni (ppm) ICP-MS
> 99 ● > 127.1
98 - 99 ● 75.1 - 127
95 - 98 ● 51.1 - 75
≤ 95 • ≤ 51
N
10
0
10
Kilometers

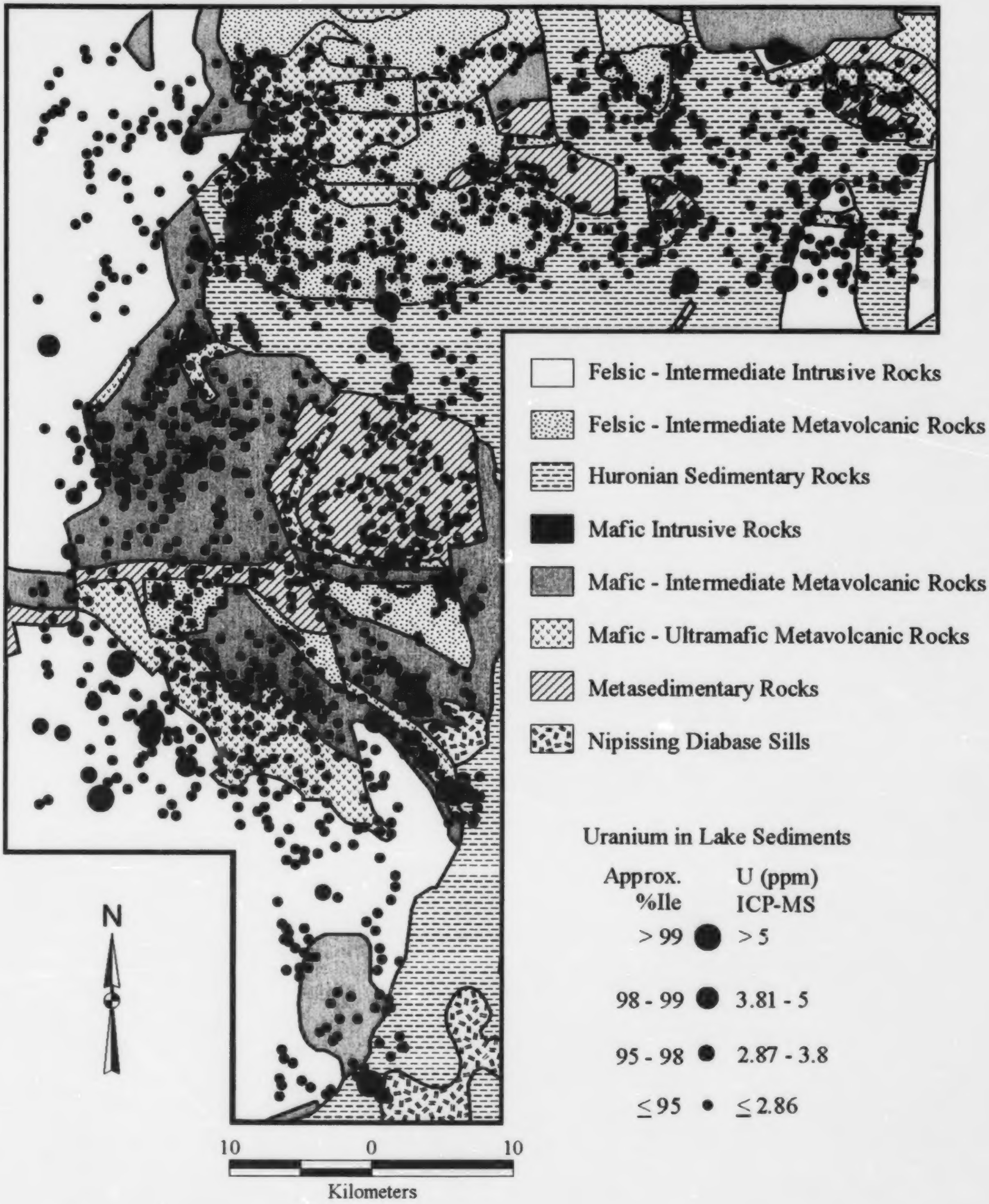

Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Lead in Lake Sediments
Approx. %Ile
Pb (ppm) ICP-MS
> 99 ● > 27
98 - 99 ● 19.61 - 27
95 - 98 ● 11.11 - 19.6
≤ 95 • ≤ 11.1
N
10
0
10
Kilometers

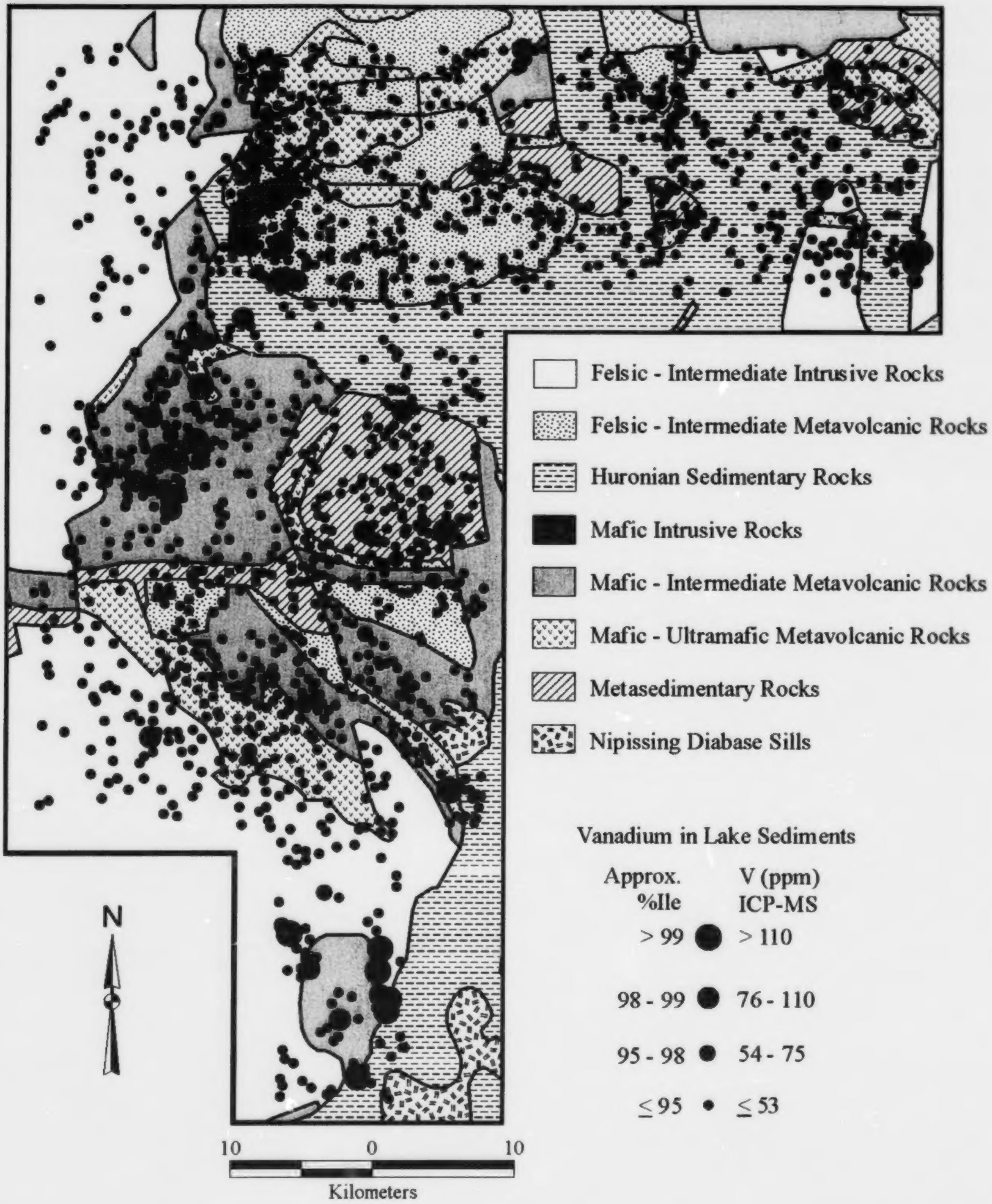

Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Palladium in Lake Sediments
Approx. %Ile
Pd (ppb) FA/ICP-MS
> 99
> 7
98 - 99
4.6 - 7
95 - 98
2.6 - 4.5
≤ 95
≤ 2.5
N
10
0
10
Kilometers

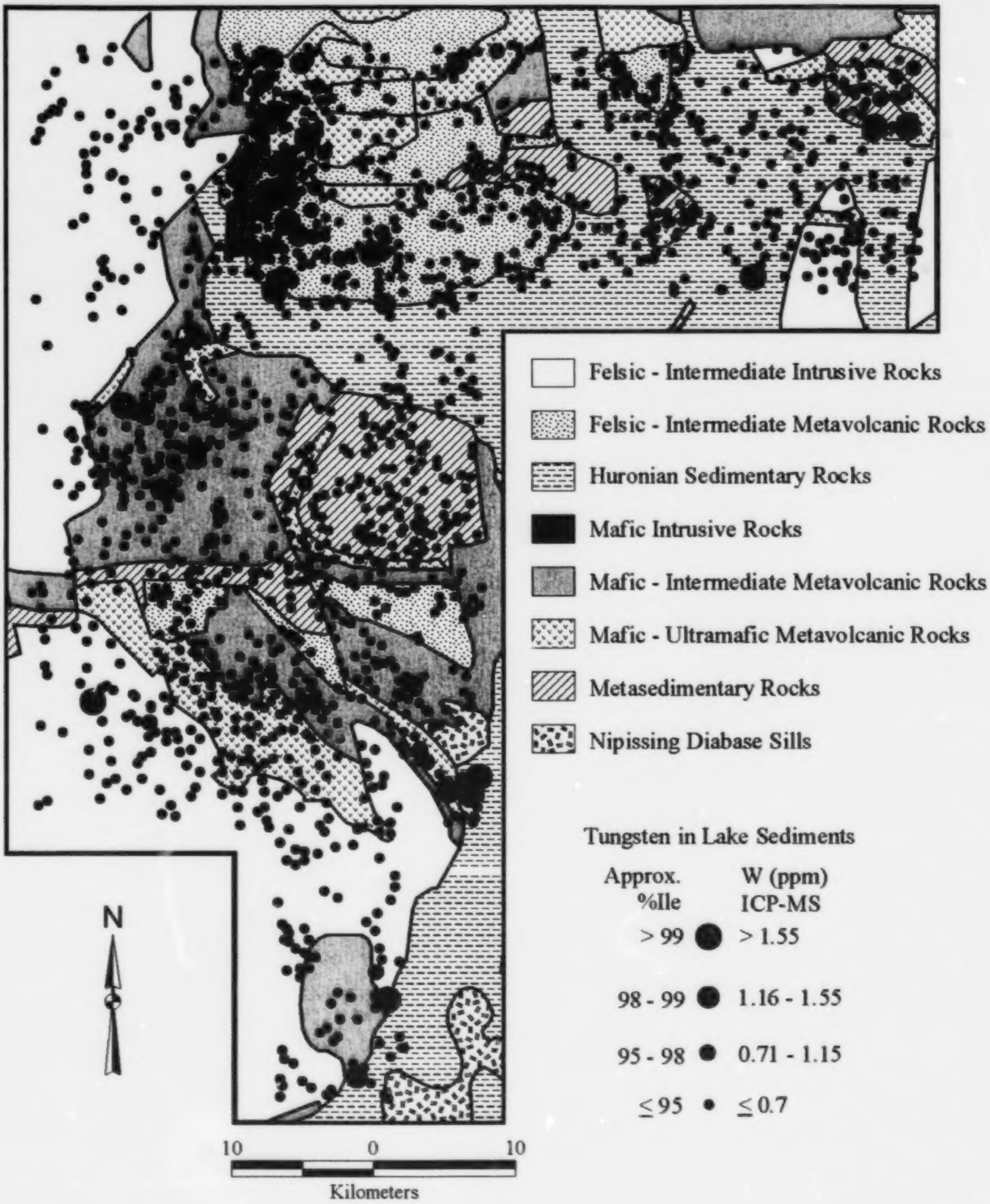

Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Platinum in Lake Sediments
Approx. %Ile
Pt (ppb) FA/ICP-MS
> 99
> 2.9
98 - 99
2.3 - 2.9
95 - 98
1.8 - 2.2
≤95
≤ 1.7
N
10
0
10
Kilometers

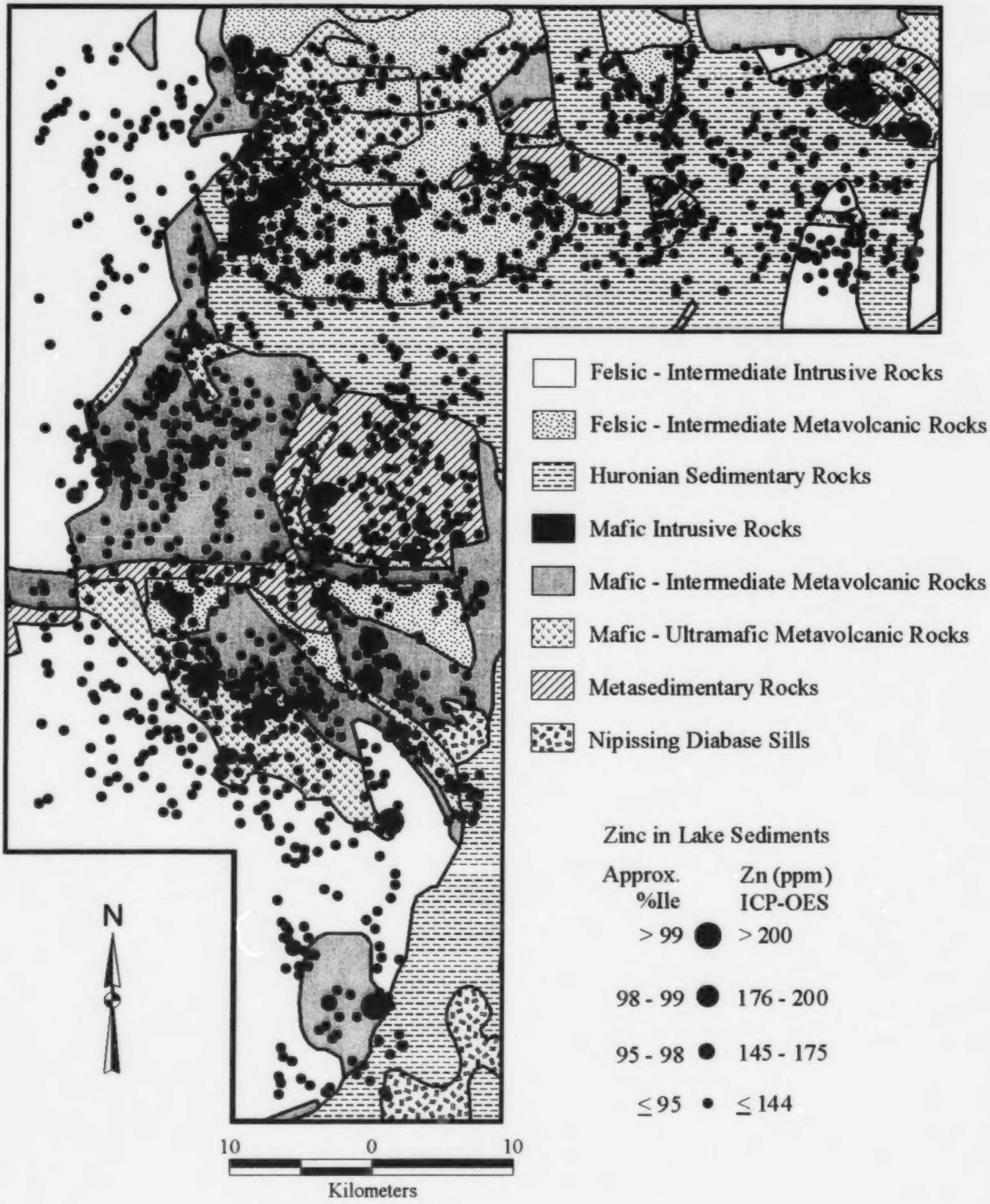

Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Total REE's in Lake Sediments
Approx. %Ile
Ce to Lu (ppm) ICP-MS
> 98
> 200
95 - 98
160.01 - 200
90 - 95
120.01 - 160
≤ 90
≤ 120
N
10
0
10
Kilometers


Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Titanium in Lake Sediments
Approx. %Ile
Ti (ppm) ICP-OES
> 99 ● > 413
98 - 99 ● 318 - 413
95 - 98 ● 191 - 317
≤ 95 • ≤ 190
N
10
0
10
Kilometers


Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Uranium in Lake Sediments
Approx. %Ile
U (ppm) ICP-MS
> 99 ● > 5
98 - 99 ● 3.81 - 5
95 - 98 ● 2.87 - 3.8
≤ 95 • ≤ 2.86
N
10
0
10
Kilometers


Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Vanadium in Lake Sediments
Approx. %Ile
V (ppm) ICP-MS
> 99 > 110
98 - 99 76 - 110
95 - 98 54 - 75
≤ 95 ≤ 53
N
10
0
10
Kilometers


Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Tungsten in Lake Sediments
Approx. %Ile
W (ppm) ICP-MS
> 99
> 1.55
98 - 99
1.16 - 1.55
95 - 98
0.71 - 1.15
≤95
≤0.7
N
10
0
10
Kilometers


Felsic - Intermediate Intrusive Rocks
Felsic - Intermediate Metavolcanic Rocks
Huronian Sedimentary Rocks
Mafic Intrusive Rocks
Mafic - Intermediate Metavolcanic Rocks
Mafic - Ultramafic Metavolcanic Rocks
Metasedimentary Rocks
Nipissing Diabase Sills
Zinc in Lake Sediments
Approx. %ile
Zn (ppm) ICP-OES
> 99
> 200
98 - 99
176 - 200
95 - 98
145 - 175
≤ 95
≤ 144
N
10
0
10
Kilometers

APPENDIX C

Lake Sediment Analytical Data

for LOI, Ag, Au, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Pd, Pt, total REE and Zn

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
	Zone 17	Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
1	481096	5267539	59.61	0.20	<1	<3	32	69.7	7761	585	1.3	23.7	5.05	0.8	0.8	41.58	139
2	481919	5267134	51.22	0.19	<1	<3	51	81.2	8255	452	1.2	30.2	3.37	1.1	1.2	45.72	94
3	482320	5266795	54.85	0.17	4	<3	61	88.4	9630	579	1.8	36.2	3.86	1.2	1.1	50.32	116
4	482613	5266032	51.14	<0.05	<1	<3	24	57.0	2717	83	2.1	30.6	1.84	0.6	0.7	30.57	55
5	482982	5264923	55.81	<0.05	<1	<3	42	67.6	11855	599	2.9	22.8	3.29	1.0	0.8	77.93	110
6	483359	5264190	28.15	<0.05	4	<3	26	40.6	6037	554	0.9	20.3	3.44	1.4	1.2	61.35	54
7	482685	5263369	20.16	<0.05	<1	<3	26	18.2	6273	621	0.6	16.0	5.96	0.5	0.6	56.66	50
8	483468	5262360	50.47	0.09	2	<3	30	82.7	2417	60	1.7	28.6	3.04	0.5	0.7	119.22	93
9	483615	5261274	41.16	0.12	<1	<3	50	46.5	9172	309	0.8	25.0	3.75	0.4	0.7	129.44	68
11	482993	5260674	55.18	0.18	4	<3	21	30.2	3329	107	1.0	18.7	2.81	<0.3	0.5	47.82	43
12	481472	5261952	51.24	0.07	<1	3	36	35.1	6290	375	1.6	30.4	4.80	1.0	0.8	108.43	64
13	481650	5263754	48.26	0.13	<1	<3	41	51.3	5709	254	1.8	25.3	3.26	0.7	0.8	92.25	85
14	481281	5264523	43.17	0.06	3	<3	16	50.2	2663	63	1.2	17.6	1.88	0.3	0.5	48.41	78
15	480501	5263246	57.76	<0.05	<1	<3	12	49.5	3064	97	7.1	16.0	1.59	<0.3	0.4	36.98	59
16	479923	5262815	56.34	<0.05	<1	<3	21	32.6	4227	76	1.8	21.7	1.99	<0.3	0.5	58.19	45
17	479228	5261016	50.10	<0.05	2	<3	51	43.4	10099	176	2.1	29.8	2.36	1.0	0.9	115.32	73
18	478547	5261654	51.45	<0.05	<1	<3	42	39.5	2543	37	1.9	35.0	1.35	0.4	0.7	92.82	41
19	479030	5262042	45.03	0.10	1	<3	41	36.9	9050	221	0.8	23.6	3.16	<0.3	0.6	111.68	56
21	479032	5263020	63.00	<0.05	<1	<3	39	45.8	8660	92	2.0	35.0	5.87	0.4	0.6	102.04	72
22	478862	5263960	54.51	0.45	1	<3	45	53.9	13062	514	1.5	23.5	4.83	0.3	0.7	162.93	93
23	477415	5263096	65.10	0.24	<1	<6	27	53.0	1543	84	2.2	37.0	2.09	<0.6	<0.6	85.56	47
24	476765	5263289	63.26	0.63	7	3	31	66.7	16312	427	3.2	34.4	62.96	1.3	1.2	94.38	123
25	477076	5264369	54.52	0.32	2	<3	25	42.2	4249	89	1.4	22.6	2.30	0.6	0.7	42.15	64
26	478567	5264783	63.54	0.28	2	<3	32	49.0	5257	234	1.5	28.0	3.30	0.6	0.7	82.07	66
27	478936	5265124	48.98	0.39	2	<3	46	54.3	8467	273	1.0	27.5	3.05	0.8	0.8	113.57	70
28	479674	5265452	59.39	0.12	<1	<3	12	37.3	1105	36	1.5	26.3	2.35	0.6	0.6	31	50
29	478101	5267196	71.19	0.08	<1	<7	15	48.3	8267	181	2.2	23.7	3.17	<0.7	<0.7	19.15	94
31	477000	5267514	51.61	0.12	<1	<3	30	65.6	3105	139	1.6	27.1	2.12	0.8	0.8	44.51	71
32	475695	5268418	66.55	0.11	<1	<3	32	106.7	7033	244	14.4	20.9	3.48	0.6	0.8	62.38	74
33	475550	5268811	57.34	0.26	3	<5	53	97.8	7534	535	2.7	28.5	7.60	<0.5	<0.5	73.53	131
34	474731	5268479	50.35	0.21	<1	<3	36	95.4	7119	260	2.2	19.1	3.40	0.9	0.9	74.53	68
35	474555	5269280	51.31	0.28	5	3	23	114.3	4198	60	2.1	17.9	1.92	0.6	0.5	61.38	76
36	472211	5268807	47.84	0.19	<1	<3	57	117.5	7805	112	11.1	30.0	5.66	2.6	1.1	55.23	144
37	472514	5269486	25.33	0.15	5	<3	58	55.4	8457	138	3.4	26.2	5.52	1.4	0.9	57.78	87
38	471947	5269776	35.76	0.11	<1	<3	65	82.9	10153	155	7.9	28.4	5.72	2.3	1.0	60.02	117
39	470997	5269014	84.69	<0.05	<1	<3	18	18.3	2506	125	0.9	14.8	2.30	<0.3	0.4	18.4	117
41	470919	5269281	87.53	<0.05	<1	<3	25	16.4	2238	607	0.9	19.2	2.63	<0.3	0.4	14.73	117
42	469986	5269752	88.71	<0.05	5	<3	16	11.3	1799	184	0.7	10.9	2.09	<0.3	0.4	12.4	79
43	468231	5270338	78.73	<0.05	<1	<6	13	15.1	7807	203	4.2	13.0	3.11	<0.6	<0.6	16.94	108
44	467760	5270678	67.97	<0.05	<1	<9	43	12.7	3508	145	1.0	20.4	2.21	<0.9	<0.9	23.67	58
45	467636	5270376	56.85	<0.05	1	<3	50	17.8	3957	80	1.1	23.8	4.09	<0.3	<0.3	35.03	125
46	469302	5268470	56.76	<0.05	<1	N/A	20	12.6	1201	144	0.7	14.3	2.14	N/A	N/A	14.61	123
47	470048	5268135	90.49	<0.05	<1	<3	45	10.1	2376	58	0.7	20.8	2.36	<0.3	0.6	20.93	56
48	470979	5268073	76.99	<0.05	3	N/A	246	51.9	6610	98	14.5	47.0	1.23	N/A	N/A	16	61
49	473850	5267559	35.35	0.23	2	<3	56	105.0	8247	524	3.2	23.8	4.54	1.0	0.9	128.38	99
51	475483	5267290	46.15	0.56	6	<3	47	87.2	17056	758	2.7	23.8	4.13	0.9	0.7	133.71	140
52	477184	5269807	74.58	0.16	<1	N/A	27	53.1	561	18	1.6	22.6	6.75	N/A	N/A	20.91	5
53	476801	5269803	69.18	0.05	<1	<3	351	47.6	14842	739	1.4	15.2	4.21	<0.3	0.5	21.2	103
54	475207	5269752	53.19	0.12	3	<3	31	113.7	2194	37	1.4	32.2	4.01	0.6	1.0	54.11	55
55	474116	5270312	59.83	0.28	2	<3	40	82.3	8660	287	1.9	23.5	5.92	0.3	0.6	100.16	145
56	473435	5270844	55.48	0.36	5	<3	39	74.5	11052	220	2.2	24.1	2.99	0.4	0.6	105.01	81
57	472599	5271479	91.84	0.13	N/A	N/A	10	14.4	972	82	0.7	11.2	19.13	N/A	N/A	6.45	102
58	472364	5271234	66.98	0.14	5	<3	20	30.7	6789	390	0.9	15.2	4.28	<0.3	0.6	34.03	88
59	471683	5271766	46.86	0.23	2	4	34	86.4	9974	142	1.4	24.0	2.47	0.8	0.7	53.16	98
61	468910	5272078	61.19	<0.05	<1	<3	105	18.9	5938	55	11.0	20.1	3.15	2.0	1.1	17.16	62
62	469759	5270027	73.28	<0.05	<1	<3	8	6.8	2456	86	3.4	12.6	1.61	0.4	0.3	4.81	75
63	469528	5268574	91.25	<0.05	<2	<4	19	7.8	1643	170	0.6	13.4	2.19	<0.4	<0.4	10.11	79
65	466945	5269568	49.64	0.14	<1	<3	89	41.4	19380	1150	10.5	34.8	4.90	2.5	2.6	84.93	61
66	466755	5269864	91.62	<0.05	<2	N/A	14	8.1	1504	203	0.8	9.8	2.25	N/A	N/A	11.85	88
67	464622	5267329	45.50	<0.05	<1	<3	28	26.6	3491	57	3.3	15.3	2.57	0.6	0.5	42.96	49
68	463146	5267765	59.31	<0.05	<1	<3	30	27.8	8202	350	6.1	17.0	1.74	0.8	0.8	56.79	70
71	463516	5271443	30.88	<0.05	<1	<3	14	5.4	1552	56	0.3	6.3	6.11	<0.3	<0.3	12.8	25
72	463375	5272008	40.74	<0.05	1	<3	25	7.7	3249	58	0.7	13.4	6.45	<0.3	0.5	22.24	53
74	466424	5271891	15.24	<0.05	3	<3	42	14.8	12207	188	0.7	22.4	4.36	0.3	0.9	42.01	40

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27 Zone 17	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
		Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
75	465999	5270846	63.28	<0.05	2	<3	29	16.4	8942	71	3.6	20.4	2.69	0.5	0.3	25.58	41
76	466685	5270715	14.87	<0.05	<1	<3	46	17.9	10957	142	0.8	25.3	4.31	<0.3	0.7	50.1	37
77	472877	5271980	67.70	<0.05	5	<3	33	70.2	28249	1646	2.8	23.8	6.68	1.7	1.3	49.23	72
78	473309	5271818	63.30	<0.05	<1	<3	15	42.2	10845	261	1.9	19.1	3.76	<0.3	0.5	21.03	96
79	476318	5270455	53.37	0.18	4	<3	40	75.1	7580	450	1.0	22.6	4.42	0.5	0.8	60.41	108
81	478128	5265235	58.58	<0.05	<1	<3	16	46.6	1739	44	1.5	24.9	2.03	<0.3	0.5	33.38	62
82	477854	5265500	56.24	<0.05	<1	<6	12	39.7	1768	48	1.4	26.4	5.58	<0.6	<0.6	26.2	50
83	477427	5265186	55.55	0.15	2	<3	17	82.7	3401	65	3.3	25.0	2.16	0.4	0.6	52.82	83
84	475999	5264543	50.43	0.44	3	<3	56	70.9	14464	1357	3.4	28.7	8.32	0.6	1.0	123.2	150
85	474126	5263356	70.54	0.22	3	<3	35	28.7	4433	88	1.6	19.4	3.39	0.4	<0.3	45.58	100
86	473803	5262745	55.18	0.11	<1	<3	39	25.9	5996	128	1.4	20.4	4.84	0.7	0.4	42.58	89
87	472342	5262093	62.14	<0.05	4	4	30	38.3	6277	79	2.6	20.8	3.47	0.7	0.6	52.86	59
88	472567	5261213	43.72	<0.05	<1	<3	80	35.7	9743	118	2.4	25.2	4.26	1.8	1.1	75.42	48
89	471685	5261502	42.77	<0.05	<1	<3	43	21.0	4682	42	1.8	20.6	2.26	0.9	0.4	47.01	35
91	471601	5263301	39.88	<0.05	<1	<3	44	22.8	7347	167	0.7	19.9	3.91	1.3	0.9	81.52	48
92	470532	5264140	45.00	<0.05	<1	<3	333	77.0	11462	57	1.4	44.1	3.00	5.3	1.1	75.8	54
93	467764	5263686	67.06	<0.05	<1	<3	28	23.0	8497	362	2.7	17.2	3.40	0.4	<0.3	33.52	137
94	467350	5262650	30.07	<0.05	<1	<3	112	24.1	8430	79	6.6	24.4	8.34	2.4	0.8	34.36	42
95	463659	5262397	63.88	<0.05	<1	<3	53	14.2	3176	56	3.3	25.7	4.09	0.5	<0.3	23.34	62
96	463017	5262113	25.59	<0.05	<1	<3	22	14.1	4051	54	0.5	12.5	3.43	<0.3	<0.3	29.44	54
98	463188	5263794	8.52	<0.05	<1	<3	29	39.0	5296	231	0.2	8.2	3.25	2.1	0.8	51	15
99	462913	5264639	10.89	0.13	<1	<3	107	141.3	6538	58	0.7	20.5	3.75	14.2	1.6	117.62	55
101	466579	5264397	20.65	<0.05	1	<3	55	19.1	30217	936	0.8	22.6	3.87	0.6	0.6	118.18	76
102	470001	5265132	16.01	<0.05	2	<3	2	20.0	5117	508	<0.1	42.8	0.88	0.9	0.5	13.63	16
103	470287	5265635	59.43	<0.05	<1	<3	52	42.8	14015	841	3.8	31.6	3.83	0.8	0.8	59.16	122
104	472958	5265885	35.98	<0.05	<1	<3	45	17.0	11267	380	0.7	18.4	3.41	0.5	0.7	86.21	59
105	473743	5266030	52.97	0.10	<1	<3	43	93.4	10328	462	3.5	25.6	3.09	0.6	0.8	119.13	129
106	475997	5265942	72.30	<0.05	3	<3	24	62.4	5840	213	2.0	25.9	2.81	0.9	0.6	63.71	113
107	477847	5266053	67.68	<0.05	<1	<3	22	62.5	8482	124	2.3	23.3	3.41	<0.3	0.4	93.87	106
108	480722	5265391	54.87	<0.05	8	<3	8	66.8	1560	63	1.1	15.8	1.41	0.5	0.5	24.91	82
109	477523	5270237	55.37	<0.05	10	5	32	70.6	7404	587	0.9	20.5	3.04	1.9	1.1	50.16	87
111	475528	5272062	63.28	<0.05	6	5	26	80.8	6455	221	1.2	22.9	3.30	1.6	0.9	47.82	81
112	474127	5273570	59.29	0.08	9	5	22	71.4	5063	94	1.6	27.4	2.51	0.9	0.6	57.84	70
113	471655	5274273	42.12	0.07	3	<3	41	37.2	16687	1350	1.1	22.1	6.70	0.9	0.8	60.26	126
114	468688	5277323	27.55	<0.05	1	4	30	12.6	9997	249	0.8	14.2	8.31	0.8	0.9	45.99	57
115	466765	5277938	69.93	<0.05	<1	<4	22	26.1	5257	139	1.9	33.1	2.37	<0.4	0.5	23.4	74
117	466607	5278758	74.94	<0.05	1	<3	14	54.4	10568	508	2.3	21.7	2.35	0.9	0.7	17.66	114
118	467678	5279910	62.46	<0.05	<1	N/A	23	32.8	5156	89	8.7	17.3	2.13	N/A	N/A	23.95	46
121	467877	5281026	40.85	<0.05	2	<3	62	46.9	12280	176	10.6	33.0	2.42	0.7	0.8	48.39	76
122	465767	5280910	18.18	<0.05	2	<3	24	13.4	3141	39	0.4	12.0	5.86	0.3	0.5	23.41	27
124	465471	5284062	68.82	0.10	<1	N/A	51	41.7	15251	203	12.4	27.3	4.06	N/A	N/A	23.2	166
125	465395	5285103	12.27	<0.05	<1	<3	<1	25.0	2710	46	<0.1	45.0	0.80	3.1	0.5	21.62	15
126	465659	5286607	65.79	<0.05	<1	<5	59	29.4	6882	125	1.4	30.6	3.18	<0.5	<0.5	42.6	137
127	465832	5287287	22.90	<0.05	<1	<3	56	27.8	22307	468	0.6	25.7	2.95	1.2	0.6	78.9	59
128	466496	5287724	75.11	<0.05	6	<8	41	27.8	5163	222	1.8	20.9	2.31	<0.8	<0.8	30.96	121
129	466341	5288089	73.40	<0.05	<1	<3	29	17.9	4840	208	1.6	15.0	2.80	0.8	<0.3	17.29	169
131	465434	5288274	63.69	0.10	<1	<3	19	61.8	6526	134	5.0	19.7	2.75	0.7	0.5	44.4	127
132	465071	5288576	41.06	0.15	2	<3	35	46.5	12350	243	3.8	20.2	4.07	0.8	0.7	69.45	100
133	466756	5289262	58.98	0.08	<2	<3	29	23.4	21549	78	45.6	18.1	3.84	1.6	0.7	41.57	94
134	467531	5288789	85.95	<0.05	<1	<5	16	49.7	1420	54	18.6	11.3	0.72	1.6	0.5	9.28	57
135	467506	5289157	11.75	<0.05	<1	<3	1	6.3	7220	511	<0.1	48.8	0.33	1.4	0.8	23.33	14
136	467234	5290437	47.91	<0.05	<1	<3	58	15.2	25215	425	1.0	20.6	3.90	0.7	0.6	50.98	67
138	466484	5290429	82.69	<0.05	<1	<6	28	75.6	16342	91	9.0	14.6	0.87	7.2	1.6	25.43	65
139	465562	5290618	53.13	<0.05	91	<3	15	50.2	9804	190	24.9	14.2	2.74	1.7	0.8	37.34	81
142	466835	5296890	46.25	<0.05	1	<4	21	18.5	4414	133	0.8	16.1	5.12	<0.4	<0.4	65.47	49
144	466766	5298302	43.27	<0.05	<1	<3	12	19.1	1864	42	1.1	13.7	5.05	0.8	0.5	49.93	31
145	462823	5298119	77.16	<0.05	2	<3	29	32.9	4461	109	1.6	26.5	2.98	0.9	0.6	46.66	130
147	465411	5303450	41.03	<0.05	<1	<3	9	29.8	1748	28	6.3	14.8	1.51	0.7	0.4	49.09	35
148	466275	5303884	33.82	<0.05	<1	<3	25	5.2	3689	148	0.4	9.7	7.21	0.5	0.3	17.81	18
152	462868	5309401	24.98	<0.05	3	<3	28	23.4	7107	145	0.8	19.9	5.20	0.5	0.5	71.63	61
153	463072	5310178	39.75	0.10	4	<3	31	46.1	10253	400	2.1	19.6	6.69	0.6	0.4	101.56	91
154	463197	5310923	68.32	<0.05	2	<4	9	20.6	1327	27	2.1	20.9	2.26	<0.4	<0.4	21.75	30
155	463714	5311380	74.01	<0.05	3	<3	13	29.0	1636	42	2.0	18.7	1.36	1.1	0.4	26.11	43
156	464023	5311720	40.50	<0.05	<1	<3	28	32.3	9248	246	1.7	18.9	3.85	0.9	0.5	75.54	78

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
	Zone 17	Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
157	464421	5311540	40.65	<0.05	2	<3	26	34.8	9097	213	2.4	18.6	4.42	0.6	0.3	79.16	92
158	464671	5312149	25.20	0.52	1	<3	32	23.7	10922	309	1.1	19.3	3.44	0.4	0.4	83.99	83
159	463536	5313303	61.44	0.33	<1	<3	10	38.1	1386	37	5.7	18.5	4.39	0.5	<0.3	42.08	54
161	464184	5314279	67.45	<0.05	<1	<5	11	13.5	1981	56	3.1	15.8	15.29	<0.5	<0.5	36.76	62
162	466268	5315236	33.59	0.27	2	<3	30	20.1	9865	226	4.0	17.6	3.64	0.6	0.5	78.1	66
163	466105	5315970	38.09	0.15	2	<3	26	20.5	14923	243	6.1	16.9	4.85	1.0	0.5	89.8	61
164	468283	5315957	41.55	<0.05	3	<3	17	17.8	4477	85	1.4	20.0	6.23	0.4	0.3	43.9	44
165	467940	5315129	52.25	<0.05	2	<3	23	53.3	6456	200	11.0	27.7	3.36	0.7	0.5	65.49	86
166	465985	5311177	72.59	0.08	1	<3	12	23.7	3942	235	2.2	12.4	18.96	1.2	0.5	42.14	35
167	466244	5308625	32.67	0.06	4	<3	33	25.0	12138	707	2.8	22.2	9.14	0.8	0.5	74.23	113
168	466420	5307736	38.26	0.10	<1	<3	45	33.8	15867	903	3.3	31.1	8.57	1.0	0.6	98.7	150
169	466374	5307120	29.44	0.09	<1	<3	40	21.2	15732	406	1.2	25.2	3.96	0.6	0.3	92.65	111
171	466550	5306034	30.54	0.38	1	<3	42	24.8	16756	447	1.2	27.9	4.02	0.6	0.5	104.87	113
172	467694	5300955	85.20	0.06	<1	<5	20	32.4	8690	218	1.5	35.3	1.61	<0.5	<0.5	81.93	80
173	467451	5300836	47.61	<0.05	<1	<3	18	10.4	3144	91	0.8	12.6	9.09	0.5	0.5	18.32	67
174	468955	5297294	22.94	0.09	<1	<3	37	21.0	11273	245	0.6	23.6	4.30	0.6	0.5	76.73	64
175	470677	5292183	85.02	<0.05	<1	<3	31	17.6	4723	231	0.8	18.8	3.53	0.3	<0.3	19.95	131
176	471629	5289107	88.53	<0.05	<1	<3	18	11.4	2182	117	0.8	12.0	2.28	<0.3	<0.3	14.26	115
177	474559	5284751	75.07	<0.05	<1	<5	21	14.4	8920	117	2.5	15.2	1.22	<0.5	<0.5	18.19	63
178	475895	5276630	58.76	<0.05	3	<3	7	40.1	702	24	1.4	25.4	0.61	0.6	0.7	8.57	38
181	479409	5269584	63.53	<0.05	<1	<4	20	49.2	7577	373	1.0	17.7	5.70	<0.4	1.0	23.77	70
182	476912	5270638	51.62	0.19	2	<3	33	58.8	13964	941	1.0	19.3	3.96	0.7	0.9	55.54	122
183	474526	5271123	61.07	0.45	4	<5	15	135.8	4208	105	1.6	24.3	45.91	0.5	<0.5	38.86	481
184	473008	5273102	62.33	0.26	<1	<3	19	64.8	13222	528	2.3	21.9	5.78	0.5	0.6	34.02	165
186	471878	5272345	37.62	<0.05	<1	<3	25	28.3	5482	210	1.2	18.3	3.70	<0.3	0.6	29.89	74
187	471514	5272917	70.05	<0.05	N/A	N/A	24	60.2	11611	442	1.6	24.1	6.12	N/A	N/A	44.92	106
189	468180	5273549	37.45	<0.05	<1	<3	35	6.6	2901	43	0.9	14.4	2.46	<0.3	<0.3	22.99	68
191	467758	5273327	9.72	<0.05	<1	<3	11	3.0	1581	28	0.1	4.5	3.98	<0.3	<0.3	11.58	17
193	466821	5274818	53.70	<0.05	2	<3	33	10.8	1879	48	0.6	13.9	5.35	<0.3	0.6	17.43	36
194	465698	5274762	63.54	<0.05	<1	4	156	52.8	10548	182	2.3	34.8	6.42	7.4	1.9	37.92	136
195	466364	5273736	34.04	<0.05	3	<3	58	33.2	10432	514	2.8	32.0	7.71	0.7	1.0	44.93	64
196	466374	5272973	12.49	<0.05	<1	<3	42	15.4	18360	392	0.9	22.9	3.80	<0.3	0.7	45.75	46
197	463458	5273861	55.03	<0.05	<1	<3	19	32.6	15407	440	4.0	16.1	2.89	<0.3	0.4	57.74	77
198	463325	5274691	27.17	<0.05	1	<3	39	38.7	11859	232	1.8	19.4	3.67	0.5	0.8	76.07	76
199	463953	5275380	54.26	<0.05	<1	<3	41	20.9	5415	47	3.3	16.0	2.57	1.9	1.0	27.95	44
202	463143	5276083	55.85	<0.05	2	<3	18	54.1	2071	41	2.2	33.4	3.23	<0.3	0.5	74.6	53
204	462488	5277244	35.09	<0.05	<1	<3	37	64.2	8620	499	3.7	21.5	2.15	0.6	0.9	83.62	67
205	463053	5277686	27.41	0.28	2	<3	40	185.7	9698	186	2.2	23.2	3.82	2.1	1.2	130.48	61
206	463034	5277361	27.76	0.25	<1	<3	35	85.0	10324	240	2.2	19.8	3.13	1.1	1.0	86.03	59
207	466344	5276569	51.13	0.10	<1	<3	39	25.4	17032	204	5.0	17.9	2.36	0.6	0.9	67.89	76
211	468086	5278657	55.15	0.06	2	<3	25	26.4	5006	96	1.8	18.0	3.62	0.5	1.0	27.05	75
212	470867	5278518	52.93	<0.05	<1	<3	15	23.3	3739	120	1.1	15.1	2.43	<0.3	0.5	23.35	52
213	471948	5278347	44.10	0.05	<1	4	32	24.1	6867	174	0.7	19.3	3.92	<0.3	0.6	39.14	62
214	471226	5277578	65.60	<0.05	<1	<7	7	18.2	827	30	2.0	13.0	2.48	<0.7	<0.7	23.59	44
215	471134	5276916	79.24	<0.05	<1	<5	24	38.2	2542	127	3.9	19.5	5.23	<0.5	<0.5	23.9	86
216	472473	5274521	45.32	0.08	2	<3	43	43.6	14568	660	0.7	23.5	4.09	0.9	1.0	60.68	92
217	473028	5274030	63.35	<0.05	3	<4	27	31.8	6683	62	2.4	16.7	1.97	0.9	0.5	15.83	59
218	473889	5273001	60.11	<0.05	<1	<3	28	50.5	6722	208	1.5	22.4	5.50	0.3	0.5	26.5	117
219	474328	5272625	71.58	<0.05	<1	<4	18	41.7	2507	86	1.2	23.6	2.28	<0.4	<0.4	17.6	83
221	474935	5271235	50.00	0.24	<1	<3	36	89.4	8285	521	1.1	24.4	5.55	0.6	0.9	65.21	135
222	475296	5270593	73.04	0.11	<1	<5	27	88.3	5071	127	2.3	29.0	5.12	<0.5	<0.5	54.06	146
223	475242	5271248	48.53	0.08	8	<3	59	78.7	12723	128	3.5	39.9	4.14	0.4	0.7	58.36	136
224	476598	5265674	51.08	0.27	<1	<3	60	88.8	15726	1119	5.4	32.5	3.63	0.9	0.9	152.66	168
225	475688	5265362	33.80	0.14	1	<3	39	48.5	8486	259	1.7	21.6	5.44	0.5	0.8	72.81	74
226	474487	5266790	42.58	0.28	3	<3	52	88.3	7384	334	1.7	23.9	5.38	0.9	0.8	112.21	110
227	472884	5266847	28.45	<0.05	<1	<3	58	39.9	18030	399	1.4	29.5	3.46	1.1	1.0	100.41	90
228	472672	5267374	26.09	<0.05	<1	7	26	23.9	3119	50	0.3	14.1	5.88	<0.3	0.3	19.83	43
229	472104	5266660	18.95	0.54	2	<3	51	17.5	17616	420	0.7	23.4	2.46	<0.3	0.5	88.16	86
231	472033	5267322	57.09	<0.05	<1	12	42	51.2	8649	400	2.5	28.2	2.99	1.5	0.9	39.51	119
232	471306	5267301	58.47	<0.05	<1	<3	105	29.2	7137	63	4.2	35.9	2.68	5.1	1.5	40.39	60
233	470438	5267395	51.78	<0.05	N/A	N/A	41	19.8	N/A	N/A	1.0	29.4	2.70	N/A	N/A	19.08	N/A
234	470826	5267013	49.10	<0.05	4	<3	250	69.1	21563	1107	16.9	47.0	5.57	12.0	3.8	37.45	86
235	471051	5265891	56.48	<0.05	4	<3	32	19.0	4593	109	2.9	20.4	5.85	1.4	1.0	12.39	65
236	473414	5265045	61.15	<0.05	4	5	43	89.0	13190	740	1.4	29.1	19.10	1.8	0.9	95.63	96

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27 Zone 17	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
		Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
237	474405	5264542	39.42	<0.05	1	<3	39	15.9	12260	540	0.6	14.0	2.96	<0.3	0.5	81.11	59
239	476043	5262896	46.22	0.15	<1	<3	25	50.0	9299	144	2.4	22.6	3.50	0.4	0.5	61.64	83
241	477681	5270399	81.17	<0.05	3	<7	16	54.0	3944	105	1.0	20.8	1.16	<0.7	<0.7	17.54	75
242	475373	5272691	48.85	<0.05	<1	<3	31	70.0	13483	579	1.0	18.4	4.67	1.2	0.9	54.63	79
243	472917	5276222	66.08	0.24	3	<3	16	162.4	5673	165	1.4	16.1	4.04	0.3	0.4	48.5	226
244	472331	5279358	64.85	<0.05	<1	<3	14	27.2	4080	130	1.1	17.6	1.35	0.4	0.5	18.02	81
245	472754	5279618	50.62	0.10	4	<3	29	56.6	20891	621	2.2	28.9	1.88	1.6	1.3	47.58	65
246	470621	5280935	56.72	<0.05	3	<3	29	19.3	8862	120	2.7	23.2	2.54	0.9	0.5	31.91	64
247	470158	5281658	42.68	0.05	<1	<3	26	18.6	9760	254	1.8	18.2	7.15	0.5	0.4	40.24	109
248	469255	5281346	52.53	0.12	3	<3	24	53.0	6134	247	5.4	15.0	3.54	0.5	0.4	33.82	89
249	469062	5280571	67.24	0.08	<1	<5	19	22.7	4630	285	5.1	11.5	7.36	<0.5	<0.5	22.26	62
251	467501	5282279	64.82	0.29	<1	<3	16	55.4	5876	221	3.9	12.1	1.80	1.9	1.2	22.88	71
252	467738	5285074	67.74	1.65	1	<4	65	31.8	7970	125	2.6	30.8	5.16	1.0	0.5	33.24	126
253	466921	5285797	61.89	0.38	<2	N/A	56	25.2	5879	122	0.9	29.8	22.45	N/A	N/A	41.48	66
254	467204	5284940	66.46	0.12	<2	<5	64	24.6	5187	67	2.8	32.5	4.93	<0.5	<0.5	22.13	76
255	467687	5285682	47.89	0.09	<1	<3	64	39.1	14737	650	6.1	30.1	6.40	2.3	1.6	41.19	67
256	467185	5285916	33.31	<0.05	2	<3	65	23.2	8849	144	2.6	31.6	7.23	1.7	1.0	38.4	44
257	468894	5283351	21.84	<0.05	<1	<3	69	20.6	21474	374	0.5	26.3	4.66	<0.3	<0.3	62.81	34
258	471147	5281733	57.03	<0.05	1	5	34	22.3	8680	85	3.0	25.4	2.48	0.6	0.5	35.24	64
259	472174	5280364	67.51	<0.05	<1	<3	16	30.4	15456	159	4.6	11.6	1.78	0.4	0.6	25.39	103
261	473984	5278831	70.82	<0.05	<1	<3	35	43.1	12044	368	1.6	28.1	3.24	1.2	1.0	41.24	106
262	474849	5276632	8.27	<0.05	2	<3	2	24.2	3918	791	<0.1	37.0	0.58	1.0	0.6	10.51	16
263	475790	5271245	73.46	<0.05	1	4	19	59.8	2880	84	1.2	25.5	2.13	1.7	0.9	31.69	47
264	478035	5270203	82.91	<0.05	<1	<9	14	20.8	1835	46	0.8	14.5	4.01	<0.9	<0.9	12.81	60
265	483591	5267145	55.71	0.06	<1	<3	38	70.7	6911	397	1.7	27.2	3.01	1.4	1.3	34.04	98
266	485887	5266328	47.36	0.15	4	<3	45	44.8	11336	604	1.2	22.5	6.07	0.8	1.0	93.31	103
267	488688	5266320	69.63	0.07	<1	<3	25	19.5	2370	83	1.0	17.3	6.11	<0.3	0.5	24.48	107
268	490099	5266235	37.28	<0.05	1	<3	37	28.2	90297	7244	4.9	30.4	2.33	3.9	4.1	28.23	49
269	490146	5265891	11.29	<0.05	1	<3	1	2.5	3139	415	<0.1	30.5	0.11	1.3	<0.3	3.59	5
271	491385	5264343	48.57	<0.05	<1	<3	58	21.3	10377	300	1.2	23.4	4.28	1.3	1.4	40.36	52
272	493102	5263959	54.63	<0.05	<1	<3	41	22.5	10923	356	5.8	13.9	2.81	2.9	1.9	12.93	34
273	494198	5264219	81.12	<0.05	<2	<4	17	14.6	15634	111	7.2	10.4	1.81	0.7	0.6	11.66	37
274	493936	5265586	5.82	<0.05	1	<3	15	7.7	4617	93	0.2	9.6	2.02	<0.3	0.3	26.05	18
275	493097	5263309	52.12	<0.05	4	<3	69	23.1	10527	716	7.2	27.0	7.24	3.6	2.3	20.78	48
276	493384	5263280	84.25	4.91	2	<4	33	16.5	3843	97	3.7	17.4	1.28	0.6	<0.4	13.54	80
277	493940	5262944	41.69	0.90	8	5	44	19.6	6198	69	1.5	27.4	6.06	0.9	0.5	34.89	41
278	494211	5262769	84.94	<0.05	<1	<3	31	14.2	2410	236	1.6	20.6	2.81	1.1	1.0	14.12	105
279	493631	5262629	38.08	<0.05	<1	<3	107	39.5	12704	759	12.6	39.3	2.62	7.7	2.8	16.74	44
281	494015	5261955	68.82	<0.05	<1	<3	55	23.0	4100	229	2.6	30.0	3.69	1.1	0.7	20.42	106
282	493765	5261256	69.62	<0.05	<1	<3	56	24.1	6643	488	1.6	35.3	3.58	1.7	1.5	58.55	91
283	493961	5261132	68.05	<0.05	3	<5	24	16.7	2855	102	1.1	20.6	4.69	<0.5	0.5	19.18	75
284	493773	5260860	74.33	<0.05	<1	<3	38	22.0	5282	212	1.1	24.1	3.19	0.5	0.5	30.36	129
285	493131	5261430	63.14	<0.05	N/A	<10	53	16.5	5094	177	1.0	24.2	26.09	1.0	<1	18.99	67
286	476638	5271465	66.82	<0.05	4	<4	9	53.1	1291	49	1.6	16.1	5.01	0.5	<0.4	13.76	57
287	473818	5274942	44.08	<0.05	<1	<3	20	30.6	3886	67	0.4	15.6	4.62	<0.3	0.4	33.86	25
288	471568	5277086	54.65	<0.05	5	3	29	35.9	9462	623	2.2	19.4	4.59	<0.3	0.5	44.79	72
291	470709	5284985	44.53	3.85	<1	<3	126	30.1	68961	1680	1.5	30.3	3.13	4.7	2.5	68.4	54
292	470521	5288211	4.52	3.57	<1	<3	27	5.2	4391	71	0.8	14.1	1.19	0.6	0.7	21.69	17
293	469132	5290561	82.35	0.87	<2	N/A	16	7.4	5208	73	3.5	7.0	9.29	N/A	N/A	6.46	35
295	469084	5294127	6.71	<0.05	<1	<3	10	3.5	3762	75	0.2	5.8	1.17	<0.3	<0.3	33.79	21
296	469467	5294441	59.65	<0.05	<1	<3	16	20.2	6946	215	1.8	17.1	2.70	<0.3	0.4	23.55	97
297	469820	5294415	46.29	<0.05	1	<3	21	24.9	15627	412	3.5	16.3	3.01	<0.3	0.5	34.32	112
298	469056	5299540	18.74	<0.05	2	<3	49	23.2	16421	486	0.7	26.9	6.59	<0.3	0.5	99.88	81
299	467272	5299145	81.41	<0.05	<1	<3	6	14.8	1011	28	3.6	8.5	5.00	<0.3	<0.3	19.08	32
301	468138	5299636	36.95	<0.05	1	<3	19	15.2	3704	74	0.7	9.0	13.08	<0.3	0.4	61.23	38
302	467683	5300277	45.79	<0.05	1	<3	17	32.4	3528	72	1.2	15.4	1.57	<0.3	0.4	51.01	54
304	470246	5300421	85.48	<0.05	<1	<3	11	9.8	1167	22	0.8	10.5	1.18	0.4	<0.3	18.96	40
306	471072	5302159	87.88	<0.05	2	<5	12	13.2	1691	101	1.2	9.2	4.07	<0.5	<0.5	16.79	118
307	470403	5303061	47.31	0.05	<1	<3	37	46.0	12309	404	1.8	25.4	5.83	1.2	0.6	78.27	70
308	469877	5303863	39.37	<0.05	2	<3	41	40.0	12529	345	1.5	26.8	4.28	0.7	0.4	82.9	70
309	469278	5305401	27.28	<0.05	<1	<3	50	30.6	18289	393	0.6	30.1	5.98	0.7	0.5	91.18	78
311	469160	5306615	17.97	<0.05	3	<3	25	19.3	8810	230	0.7	15.7	3.19	0.5	<0.3	62.47	30
312	468293	5307170	60.42	<0.05	<1	<3	31	110.6	9484	554	3.5	32.5	3.29	2.5	0.6	54.48	96
313	468104	5306936	27.15	<0.05	2	<3	22	32.9	4519	109	1.7	16.5	3.06	<0.3	<0.3	83.35	71

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27 Zone 17	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
		Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
315	467122	5308585	25.54	<0.05	<1	<3	49	23.3	18261	568	0.9	28.7	4.48	0.5	0.5	100.12	118
316	466678	5309277	10.37	2.40	<1	<3	28	12.0	12271	249	0.4	16.2	2.85	<0.3	<0.3	62.91	63
317	467093	5309750	22.08	1.11	2	<3	31	22.4	11403	383	1.3	17.5	2.92	0.7	<0.3	65.44	67
318	468045	5309640	75.08	0.08	<1	<3	7	20.9	3016	34	3.9	12.0	1.83	0.8	<0.3	13.33	105
319	469149	5308978	50.42	0.16	<1	<3	17	16.7	5758	268	2.7	15.7	3.52	0.6	0.3	41.46	37
321	469411	5309651	49.75	0.05	1	<3	18	17.6	5149	160	1.3	17.8	2.82	<0.3	<0.3	40.29	58
322	469047	5310513	53.10	<0.05	<1	<3	18	18.3	5878	183	0.9	17.6	2.59	<0.3	<0.3	36.52	58
323	468140	5311351	48.36	0.06	<1	<3	22	30.9	5869	147	2.0	22.6	2.66	0.9	1.1	42.86	71
324	470145	5310319	64.61	0.05	1	<3	22	32.2	6058	330	2.2	21.3	11.14	1.5	1.6	50.45	75
325	470312	5310876	67.89	<0.05	2	<3	29	35.4	5449	230	4.5	26.2	6.06	0.7	<0.3	60.72	72
327	473687	5313669	39.51	<0.05	3	<3	21	19.9	2534	74	1.1	20.6	3.13	<0.3	<0.3	67.86	48
329	472662	5313171	72.79	0.05	1	<3	15	25.6	4234	220	0.8	12.3	3.26	0.5	<0.3	48.03	76
331	472654	5312478	87.18	0.08	2	<3	12	31.4	1574	116	0.6	10.4	1.09	0.5	<0.3	27.8	75
332	472877	5312437	50.49	0.21	<1	<3	28	31.4	7690	290	0.6	17.3	3.25	0.6	0.9	127.33	74
333	472803	5311961	51.25	0.20	<1	<3	38	42.9	9541	281	1.2	18.4	3.67	0.7	0.7	184.45	124
334	472663	5310253	81.32	0.14	<2	<8	16	24.2	5360	292	1.3	10.9	12.84	<0.8	<0.8	21.2	128
335	472677	5310616	32.96	0.15	<1	<5	25	67.1	2656	44	1.4	17.3	6.27	<0.5	<0.5	114.07	47
336	473770	5310957	24.23	<0.05	N/A	<3	19	59.6	8909	150	2.0	19.5	3.27	0.6	0.5	101.36	125
337	474059	5311615	17.62	<0.05	<1	<3	21	14.4	6320	103	0.5	12.4	2.33	<0.3	0.6	47.74	36
339	475515	5314907	48.16	0.54	<1	<3	38	48.3	7703	235	1.5	21.9	8.70	<0.3	0.5	144.95	146
341	477125	5316030	48.86	<0.05	6	<3	68	79.0	39298	10406	9.5	40.3	8.88	1.6	1.2	125.09	204
342	477191	5315623	54.81	0.11	4	<3	54	67.8	11632	828	2.6	22.1	7.98	0.9	1.0	147.82	174
343	477754	5315199	32.27	<0.05	1	<3	33	39.8	5945	120	1.3	20.7	3.27	0.7	0.8	63.3	78
344	477113	5314669	66.84	<0.05	3	<3	51	19.4	3616	92	1.0	29.3	3.04	0.5	0.5	25.69	137
345	476790	5314764	82.76	<0.05	2	<7	17	38.5	1467	36	1.2	16.1	6.10	<0.7	<0.7	19.04	84
346	477135	5313884	28.70	<0.05	<1	4	30	13.9	2513	40	0.3	14.1	4.42	<0.3	<0.3	23.01	33
347	477478	5313626	74.50	<0.05	3	N/A	42	55.9	13765	219	2.5	25.0	4.68	N/A	N/A	66.83	149
348	477242	5313170	91.10	<0.05	<1	<3	17	9.1	997	52	1.9	9.4	3.34	<0.3	<0.3	14.61	134
349	477029	5312642	58.76	<0.05	<1	<3	27	21.2	5732	76	2.3	14.5	2.03	0.8	0.6	53.37	110
351	476061	5312084	47.76	<0.05	3	<3	29	29.7	8210	164	1.5	17.2	4.64	<0.3	0.6	64.14	91
352	475556	5311120	52.41	<0.05	2	<3	43	32.5	16641	635	1.8	21.9	6.80	0.4	0.6	107.07	122
353	474777	5310450	45.08	0.05	3	<3	32	25.4	5882	183	1.5	19.9	3.65	<0.3	0.6	62.35	78
354	473704	5309206	26.92	<0.05	<1	<3	47	28.6	12122	163	1.6	18.9	4.75	0.6	0.8	72.39	60
355	471427	5306937	6.39	<0.05	<1	<3	24	12.5	7480	214	0.3	15.0	2.82	<0.3	0.7	63.81	41
356	471394	5305890	17.13	0.05	5	<3	47	22.5	14537	369	0.4	26.2	4.50	<0.3	0.5	94.75	75
357	471479	5305079	7.70	<0.05	<1	4	30	20.9	11388	426	0.3	17.7	3.89	<0.3	0.5	81.92	43
358	471569	5303701	29.03	0.10	6	<3	47	40.9	13895	348	0.7	24.2	9.17	<0.3	0.6	148.21	102
359	473907	5303236	73.21	<0.05	2	<3	35	19.2	3944	131	1.0	22.7	7.33	<0.3	0.4	24.11	81
361	474099	5302442	68.93	1.54	<1	<3	39	14.8	3272	76	2.0	26.9	2.58	<0.3	<0.3	27.07	90
362	473950	5301825	88.62	0.46	<2	N/A	18	10.1	2125	180	0.8	12.0	1.28	N/A	N/A	16.83	71
363	473602	5301558	61.73	0.10	<2	N/A	44	10.9	1715	62	1.1	22.9	2.64	N/A	N/A	12.38	41
364	474290	5297772	39.02	0.28	3	3	72	55.0	14483	279	1.4	44.2	6.23	1.6	1.0	130.18	121
365	474384	5295643	86.40	0.06	<2	N/A	33	20.3	88262	1273	2.7	20.4	20.48	N/A	N/A	11.02	113
366	474463	5292851	8.76	<0.05	<1	<3	14	2.2	1936	28	0.1	7.1	3.07	<0.3	<0.3	21.31	11
368	475886	5289399	87.63	<0.05	N/A	N/A	33	12.4	1928	236	1.1	19.3	19.59	N/A	N/A	15.87	97
369	476960	5285652	62.63	0.08	<1	<3	23	45.4	8824	281	3.0	22.8	4.24	0.3	0.4	29.95	107
371	477933	5284278	75.94	<0.05	1	<3	12	11.3	3591	102	1.2	23.5	2.81	<0.3	0.3	8.15	62
372	479244	5278500	77.18	<0.05	<1	<3	20	31.7	1807	120	2.3	28.4	0.45	<0.3	<0.3	6.79	89
373	480243	5274636	44.77	<0.05	3	<3	20	34.8	35242	1146	1.3	21.2	1.94	0.9	0.5	27.87	70
375	480638	5269460	65.04	<0.05	<1	4	23	66.0	5574	109	9.0	26.1	1.40	3.6	1.9	22.46	57
376	484384	5266916	74.76	<0.05	<1	<7	25	34.9	3740	267	1.4	16.7	5.06	0.9	<0.7	16.13	51
377	486893	5266088	48.53	<0.05	<1	<3	39	17.8	6478	131	1.0	28.8	3.20	0.5	0.5	47.88	52
378	488820	5265793	86.83	<0.05	4	N/A	23	7.9	1566	36	0.7	13.4	3.32	N/A	N/A	9.76	52
379	490627	5265313	69.18	<0.05	1	<3	49	24.0	10280	242	4.9	34.2	2.59	2.7	1.8	25.05	68
381	491973	5263307	66.47	<0.05	4	<5	195	65.8	44202	643	14.9	41.4	2.43	3.9	2.0	160.35	57
382	492474	5263147	66.24	<0.05	7	<4	189	48.9	5768	78	11.4	29.3	3.37	4.2	1.4	13.38	53
383	492588	5261289	61.29	0.40	4	<3	52	25.1	4920	71	1.1	26.0	5.35	0.4	0.4	42.28	117
384	492021	5260844	90.87	<0.05	<1	<6	8	8.1	908	161	0.6	7.8	1.86	<0.6	<0.6	9.4	86
385	490354	5265747	16.13	<0.05	2	<3	29	7.0	4205	346	1.2	31.1	2.64	0.7	0.6	14.67	17
386	489520	5265940	72.20	<0.05	4	<4	24	25.4	5198	102	1.7	21.0	9.10	0.5	<0.4	13.47	83
387	487955	5267140	70.39	<0.05	2	<3	40	21.7	4450	79	1.8	22.5	3.05	<0.3	0.3	16.73	156
388	484240	5267997	55.68	0.14	4	4	48	62.5	11524	832	2.0	26.1	5.61	1.0	1.3	63.23	117
389	481864	5269079	58.03	0.36	5	<3	59	73.6	12434	1044	5.0	34.8	7.05	1.3	1.1	49.39	143
391	482616	5268883	59.38	0.23	4	<3	32	79.2	11186	400	3.1	24.5	5.20	0.8	1.3	55.69	99

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27 Zone 17	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
		Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
392	483360	5268869	76.37	0.05	<1	<3	36	54.1	3026	82	2.1	37.3	3.47	<0.3	0.5	27.61	25
393	484196	5270505	58.98	0.11	4	<3	50	59.3	2633	43	2.9	42.8	1.54	0.4	0.5	73.22	66
394	485075	5269838	54.63	0.34	4	<3	42	95.1	12630	789	1.5	25.5	11.92	0.9	0.7	75.79	127
395	485850	5269629	72.21	0.12	<1	<4	23	78.9	1108	23	1.6	25.4	3.69	<0.4	<0.4	22.07	63
396	485573	5271100	59.44	0.07	<1	<3	30	61.3	3667	165	2.0	22.6	3.80	0.9	0.9	20.98	70
397	484679	5271526	46.91	0.37	41	34	69	73.0	11288	466	1.3	34.9	5.27	1.4	1.1	84.95	90
398	482922	5271574	54.20	0.16	<1	<3	29	58.6	7318	141	2.5	28.6	5.50	0.7	0.8	48.74	93
399	481986	5271045	75.55	<0.05	3	<4	22	38.0	2658	124	1.3	23.2	1.65	<0.4	<0.4	21	80
401	481458	5269506	59.49	0.25	<1	<3	61	93.1	11967	867	3.3	40.1	6.50	2.1	1.4	56.89	153
402	479811	5270033	49.85	0.14	5	<4	38	82.5	9662	226	2.1	28.1	3.30	<0.4	0.5	43.01	97
403	479665	5272831	66.29	0.07	6	<4	24	75.0	3200	126	1.7	26.9	1.74	<0.4	<0.4	23.98	78
404	479460	5273969	37.89	<0.05	<1	<3	30	26.6	9471	225	0.8	17.6	3.56	0.7	0.9	37.34	56
405	479373	5279909	56.65	<0.05	2	<3	49	56.7	8656	909	1.1	23.5	5.38	0.5	0.8	56.88	152
406	479644	5280510	58.76	<0.05	<1	N/A	28	46.8	11001	498	1.2	20.9	13.89	N/A	N/A	33.26	119
407	477669	5285591	54.68	<0.05	1	<3	37	22.9	11471	964	1.0	20.3	6.89	0.6	0.6	46.42	81
408	478550	5285500	3.96	<0.05	<1	<3	8	3.9	2770	111	0.1	5.2	3.09	<0.3	<0.3	21.5	17
409	477857	5289045	54.93	<0.05	<1	<3	26	12.4	11055	220	1.8	12.6	3.05	0.6	0.5	25.33	58
411	477689	5292206	67.85	<0.05	<1	<3	8	13.6	1429	45	1.8	23.6	0.73	<0.3	0.5	9.11	49
412	477251	5296828	60.10	<0.05	5	<3	53	32.3	20935	1861	2.5	21.6	3.92	1.4	1.3	78.99	133
413	475717	5300230	77.51	<0.05	<1	<3	12	49.6	1295	101	2.0	26.1	1.49	2.1	0.9	21.69	72
414	474446	5301166	46.29	<0.05	5	<3	28	11.4	5587	148	1.1	17.7	1.92	0.4	<0.3	24.24	68
415	474294	5301880	71.64	<0.05	<1	N/A	23	10.9	6869	96	3.8	14.8	0.97	N/A	N/A	15.98	79
417	476286	5305779	57.57	<0.05	4	<3	16	19.4	1654	50	1.2	48.0	2.24	0.8	0.8	18.39	91
418	475668	5306576	31.81	<0.05	2	<3	37	39.4	8317	457	1.5	24.2	19.71	0.7	1.1	60.2	69
419	476559	5307608	27.79	<0.05	1	<3	32	29.5	9222	474	1.4	19.4	6.60	<0.3	0.6	55.15	46
421	476790	5307337	68.33	<0.05	4	<10	21	19.0	7893	171	3.4	14.5	31.16	<1	<1	14.98	66
422	475995	5308235	79.52	<0.05	<1	<7	12	25.8	5662	92	1.6	15.5	2.81	<0.7	<0.7	17.1	81
423	477596	5309543	54.29	0.30	<1	<3	16	23.6	2705	46	3.2	18.7	1.59	0.5	<0.3	29.77	73
424	478383	5309996	21.02	0.06	<1	<3	16	7.9	3984	100	0.6	10.7	1.79	<0.3	0.3	26.53	38
425	478701	5309619	85.99	0.08	<2	<6	20	14.8	1985	164	0.9	15.1	2.77	<0.6	<0.6	17.97	149
426	479048	5309611	49.70	0.11	7	<3	42	32.5	21882	2504	8.6	23.3	6.95	3.9	2.0	44.25	73
427	478622	5310528	30.48	0.05	<1	<3	40	21.9	38236	1097	3.5	17.7	3.27	2.2	1.7	46.54	44
428	479000	5310504	50.39	<0.05	<1	<3	30	16.9	9675	127	6.8	14.3	1.79	1.7	0.9	37.08	37
429	478933	5311391	36.06	0.10	<1	<3	38	27.6	51278	3114	3.4	16.6	4.03	2.5	1.4	60.64	37
431	478085	5311352	86.51	<0.05	<1	N/A	15	8.7	1362	62	1.1	8.9	2.03	N/A	N/A	11.68	78
432	477737	5311022	9.66	<0.05	3	<3	6	2.4	941	14	0.1	2.7	5.20	<0.3	<0.3	9.18	18
433	478094	5311779	83.24	<0.05	2	N/A	13	7.0	1531	79	0.9	6.1	1.38	N/A	N/A	8.23	76
434	478408	5312287	73.46	<0.05	<1	N/A	15	10.6	3179	82	0.8	8.0	3.37	N/A	N/A	9.35	59
435	478725	5312905	29.41	<0.05	3	<3	16	6.0	1631	53	0.3	7.9	2.51	<0.3	0.4	18.69	37
436	478131	5313000	72.80	<0.05	<1	<5	25	16.6	3256	75	2.3	13.4	2.77	3.2	1.3	19.88	62
437	477901	5314107	46.27	<0.05	2	<3	42	46.8	5356	86	2.8	33.4	3.56	<0.3	0.4	33.44	78
438	477902	5314841	19.81	<0.05	3	<3	34	28.6	9275	409	1.3	21.9	3.24	0.4	0.5	43.66	60
439	478360	5315085	81.44	<0.05	4	<8	20	13.4	1458	129	0.8	14.8	2.78	<0.8	<0.8	20.54	99
441	478502	5315556	43.46	0.09	3	<3	44	56.3	7965	560	2.0	23.4	5.06	1.4	1.3	72.14	105
442	479049	5315145	59.77	0.20	2	<3	48	78.1	5327	351	2.8	26.7	6.30	1.2	1.2	68.44	122
443	479065	5315807	54.70	<0.05	<1	<3	26	14.2	5791	178	2.7	9.7	2.84	1.7	1.7	24.69	44
444	479680	5315333	48.96	<0.05	6	3	47	19.7	8954	97	1.4	20.8	4.18	1.2	0.8	77.29	52
445	480094	5315060	50.22	<0.05	<1	<3	37	27.2	9448	159	1.8	17.0	2.46	1.0	0.9	65.44	56
446	479538	5314640	61.08	<0.05	1	<3	14	20.7	15499	45	3.5	11.0	1.48	2.9	1.3	17.69	37
447	479071	5313696	56.11	0.09	<1	<3	89	54.0	61393	1277	5.2	35.0	5.29	4.8	2.6	75.07	90
448	478772	5313600	88.15	0.06	<1	<3	18	19.3	3374	227	0.9	12.8	2.71	<0.3	0.5	17.73	190
449	479796	5314065	16.44	0.06	24	<3	33	16.7	6739	349	1.3	16.2	2.69	1.6	1.3	46.51	39
451	481815	5314727	54.55	0.11	<1	<3	22	16.4	9343	165	2.3	14.9	2.35	1.3	0.5	31.48	66
452	481639	5315001	52.30	0.10	3	4	25	25.3	21172	256	6.5	18.4	2.95	<0.3	0.6	41.92	92
453	482090	5315395	54.69	<0.05	<1	<3	29	21.2	N/A	N/A	2.2	21.0	3.39	<0.3	0.5	36.38	N/A
454	482096	5316005	56.41	<0.05	<1	<3	13	17.6	8791	172	2.0	15.3	2.46	<0.3	0.7	22.93	97
455	482570	5315712	68.68	<0.05	<1	N/A	15	24.0	10360	160	1.7	14.1	3.23	N/A	N/A	19.85	91
456	482977	5313477	51.95	0.07	<1	<3	36	28.4	11931	291	2.1	22.1	3.40	1.9	1.3	41.12	75
457	482118	5313428	38.32	0.05	<1	3	59	23.9	11942	404	1.9	31.3	3.31	1.6	1.2	52.62	69
458	481277	5312654	49.03	0.08	<1	<3	28	31.6	12285	162	3.2	18.0	2.18	1.5	0.9	31.58	46
459	480635	5312682	28.91	0.14	<1	<3	66	30.0	13520	638	2.2	29.5	5.20	2.1	1.6	88.11	71
461	479879	5312938	51.25	<0.05	<1	<5	35	16.3	3052	44	0.9	20.4	2.21	0.6	<0.5	25.41	47
462	479635	5312055	22.81	<0.05	1	<3	15	9.6	6866	662	3.1	22.3	0.72	1.4	0.8	10.9	14
463	480090	5311468	55.17	<0.05	2	<3	26	16.1	13720	236	3.5	10.8	3.08	0.9	0.4	26.05	32

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
	Zone 17	Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
464	479715	5311269	74.45	<0.05	<1	<3	18	6.6	8202	84	2.2	8.6	3.24	0.4	<0.3	35.86	52
465	480199	5310730	70.99	0.06	<1	<3	13	6.5	5350	50	3.4	10.1	1.35	<0.3	0.3	15.44	55
466	480392	5310225	68.04	<0.05	<1	<5	19	8.0	5483	40	3.0	8.5	2.07	<0.5	<0.5	35.27	56
467	479712	5310241	92.79	<0.05	<1	<3	8	6.0	971	63	1.0	6.2	1.74	<0.3	<0.3	9.16	82
469	479047	5308668	84.63	<0.05	<2	<4	21	12.1	1312	28	0.8	17.6	1.94	<0.4	<0.4	14.35	61
471	479066	5307954	70.23	<0.05	<1	<3	22	15.8	3843	124	0.9	27.5	4.55	<0.3	0.4	17.4	99
472	479306	5307604	90.50	<0.05	<2	<3	11	11.9	1221	59	1.1	21.3	4.93	0.5	<0.3	9.25	130
473	479693	5307255	60.11	<0.05	<1	<3	34	21.6	3001	55	0.9	55.2	2.54	0.3	0.5	27.28	69
474	480246	5305706	84.70	<0.05	<1	<3	13	13.9	1814	41	1.8	26.5	2.62	<0.3	0.5	20.33	54
475	481285	5302991	83.81	<0.05	<2	<4	19	11.9	2267	48	1.3	10.7	7.78	<0.4	<0.4	20.7	79
476	481744	5300591	34.46	<0.05	<1	<3	8	4.4	892	15	0.1	4.3	4.37	1.4	1.4	16.39	13
477	481725	5297848	31.18	<0.05	<1	<3	22	7.5	2600	43	0.7	10.9	2.75	<0.3	<0.3	25.92	49
478	481689	5292219	65.31	0.05	4	3	58	34.1	6819	134	2.0	42.7	3.54	0.9	0.7	39.14	155
479	480879	5291142	32.04	<0.05	<1	<3	27	9.6	5158	108	0.5	16.0	4.96	0.4	0.5	35.09	54
481	480378	5289976	37.63	0.05	<1	<3	27	34.4	15460	119	2.4	23.6	2.79	<0.3	0.5	42.48	102
482	480464	5287319	32.41	<0.05	2	<3	28	18.6	11983	258	0.8	17.2	2.47	<0.3	0.4	45.97	76
483	480388	5284136	59.55	<0.05	<1	<3	21	36.3	3419	51	1.6	21.9	1.36	0.9	0.5	36.38	68
484	480564	5282222	64.82	<0.05	2	<3	16	59.8	1976	59	2.0	33.0	1.07	0.8	0.9	18.24	92
485	480895	5281255	54.55	<0.05	<1	<3	30	59.2	6199	181	1.3	72.9	1.70	1.2	0.9	30.22	137
486	480742	5277806	55.89	<0.05	3	<3	19	57.0	6817	140	2.7	25.8	2.98	0.4	0.5	24.86	125
487	480952	5274314	56.62	0.75	5	<3	27	53.3	10859	166	1.7	29.2	2.31	0.8	<0.3	51.04	65
488	481341	5271609	58.64	0.52	<1	<3	28	45.7	8369	274	1.8	24.4	3.49	0.7	0.8	39.75	65
489	481477	5270114	55.44	0.39	10	4	59	123.3	6966	80	2.6	67.2	3.06	2.2	1.1	45.55	75
491	480519	5269907	53.41	N/A	4	<3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.1	1.1	N/A	N/A
493	480052	5273241	71.15	<0.05	2	<3	20	33.2	4681	157	1.6	15.1	3.83	0.4	0.5	21.95	59
494	481378	5278083	54.67	0.05	1	<3	8	31.5	1992	80	2.2	22.8	0.78	<0.3	<0.3	13.89	61
495	482055	5280475	42.20	0.13	5	<3	85	40.2	7743	351	0.7	85.2	3.52	1.5	0.7	66.14	129
496	481988	5281431	51.57	<0.05	<1	<3	27	31.7	2316	79	1.7	49.0	2.29	0.8	<0.3	27.97	106
497	481921	5285109	49.08	<0.05	3	<3	66	27.4	11175	93	0.7	56.0	2.95	1.4	0.6	41.68	104
498	481496	5287176	40.80	<0.05	<1	<3	16	19.6	9154	267	1.2	33.7	1.55	0.3	<0.3	18.78	60
499	480753	5289775	28.78	<0.05	<1	5	30	13.3	5204	72	0.8	21.5	2.12	0.4	<0.3	33.36	59
501	481102	5290590	40.32	0.09	<1	<3	48	23.1	7129	174	0.9	28.5	4.13	0.9	<0.3	52.5	73
502	482623	5296263	82.26	<0.05	<1	<3	21	12.0	898	44	1.7	9.7	8.18	1.0	<0.3	17.4	35
503	481090	5299214	59.30	<0.05	<1	<3	56	25.4	9989	190	1.0	37.8	2.84	1.0	0.4	62.77	75
504	480371	5300947	68.67	<0.05	<1	<3	50	13.4	10832	218	1.7	19.3	4.09	0.8	<0.3	55.74	78
505	480197	5303485	40.31	<0.05	5	<3	46	20.8	12764	227	2.6	25.5	3.71	1.6	1.0	41.49	47
506	481157	5305697	68.26	<0.05	5	<3	24	9.1	11610	114	1.2	17.1	1.08	<0.3	<0.3	19.95	67
507	480560	5307230	73.85	<0.05	<1	<3	21	23.8	6069	140	2.4	15.6	2.24	1.0	<0.3	17.7	112
508	479875	5307510	59.22	2.65	4	<3	39	30.3	9293	125	1.0	53.2	20.98	<0.3	<0.3	31.19	104
509	480443	5307963	85.44	1.61	<1	<6	31	22.4	14138	151	9.1	16.3	4.75	2.2	1.1	40.05	42
511	480980	5308429	17.43	0.24	<1	<3	9	3.2	1712	10	0.2	5.3	1.57	<0.3	<0.3	14.79	35
512	481174	5308636	80.75	<0.05	<1	<6	16	11.7	1372	85	0.8	10.8	3.04	<0.6	<0.6	11.2	108
513	481372	5308802	76.83	<0.05	<1	<5	13	8.2	1132	54	0.8	8.3	2.10	<0.5	<0.5	9.42	91
514	480859	5308684	92.55	<0.05	N/A	<10	16	8.8	1204	150	0.6	11.8	4.65	<1	<1	12.88	72
515	480453	5309002	80.66	<0.05	<2	<3	30	19.5	9719	129	6.3	16.7	8.48	1.5	0.4	19.54	36
517	480769	5310406	25.13	<0.05	<1	<3	41	18.9	11651	315	2.8	25.7	8.28	<0.3	<0.3	43.93	37
518	481914	5309114	84.03	<0.05	3	<8	9	10.1	1506	12	0.8	14.3	22.30	<0.8	<0.8	7.58	78
519	482093	5309579	69.59	<0.05	N/A	N/A	19	13.4	10086	186	7.5	13.6	6.47	N/A	N/A	15.33	53
521	482368	5309877	50.36	<0.05	<1	<3	29	16.5	6045	301	1.9	22.2	2.50	0.9	<0.3	30.09	75
522	482848	5310133	56.32	<0.05	<1	<3	26	11.3	3682	78	1.4	35.2	2.49	0.3	<0.3	22.81	55
523	482973	5310583	48.92	<0.05	<1	<3	26	9.9	3320	125	0.8	26.0	7.57	<0.3	<0.3	21.78	53
524	481849	5310706	40.01	<0.05	<1	<3	36	15.6	8605	204	0.9	23.3	2.81	0.4	1.0	40.84	70
525	481648	5311068	8.37	<0.05	<1	<3	1	3.6	1087	272	<0.1	30.3	0.31	<0.3	0.4	2.81	4
526	482446	5311274	23.33	<0.05	<1	<3	34	14.2	6294	76	1.6	23.5	2.53	<0.3	0.5	38.18	35
527	482001	5311464	42.81	<0.05	<1	<3	23	18.7	63794	870	1.6	17.0	1.45	<0.3	0.8	46.93	58
528	480653	5311735	82.08	<0.05	<2	<6	18	10.3	1596	70	0.6	12.2	6.50	<0.6	<0.6	14.34	47
529	481180	5311962	75.74	<0.05	<1	<7	12	9.2	1184	32	2.4	13.7	3.56	<0.7	<0.7	9.44	94
531	482010	5312261	38.17	0.26	<1	<3	48	26.7	15790	490	1.8	31.6	3.93	0.4	0.9	66.5	121
532	483156	5312333	42.54	0.96	<1	<3	45	18.5	13719	190	0.7	28.9	3.70	0.4	0.7	53.89	75
533	483515	5312260	55.01	0.58	3	<3	38	21.4	8687	154	1.0	30.4	3.64	0.5	0.8	47.84	68
534	483344	5311516	54.44	0.20	<1	<3	36	19.2	10567	179	1.8	34.7	3.71	0.4	0.6	31.69	73
535	483906	5310877	46.70	0.15	4	N/A	28	14.2	6262	104	0.9	27.9	2.65	N/A	N/A	31.89	70
536	483908	5311544	6.19	<0.05	<1	<3	20	4.4	3878	19	0.3	14.8	1.60	<0.3	0.5	27.32	27
537	484541	5311700	66.94	<0.05	3	<3	8	17.8	1252	<1	2.1	31.8	1.10	<0.3	<0.3	6.57	70

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
	Zone 17	Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
538	484362	5312352	3.28	<0.05	2	<3	26	8.8	7978	110	0.7	20.8	1.72	<0.3	0.5	36.46	19
539	483915	5312415	31.58	<0.05	<1	<3	47	16.7	10678	167	0.6	27.5	3.75	0.6	0.9	53.34	60
541	483617	5313117	21.56	<0.05	<1	<3	34	22.0	12020	410	1.0	23.0	2.61	0.3	0.8	45.38	68
542	485578	5313008	61.18	0.05	<1	<4	56	51.6	10649	50	3.0	43.1	2.61	1.3	0.8	47.1	57
543	485709	5313566	59.80	<0.05	<1	<3	14	10.8	1620	<1	1.9	12.9	2.64	0.7	0.5	12.22	48
544	486181	5314328	58.29	<0.05	<1	<3	13	9.1	2781	<1	3.0	11.4	2.70	<0.3	<0.3	16.8	52
545	484914	5315180	21.44	0.05	3	<3	39	16.9	11117	105	0.5	22.4	3.40	<0.3	0.6	49.78	62
546	486295	5315932	37.27	<0.05	<1	<3	21	16.8	3571	<1	0.8	17.7	1.57	<0.3	0.4	22.81	47
547	486535	5315346	22.76	<0.05	<1	<3	53	15.8	11896	135	0.5	29.7	4.15	0.5	0.8	52.08	57
548	487683	5315320	28.19	<0.05	<1	<3	39	19.3	8549	486	1.3	24.8	3.34	0.6	0.7	50	66
549	487157	5314241	24.54	<0.05	2	<3	55	18.9	15520	280	0.6	34.0	3.94	1.1	0.7	60.61	84
551	487076	5313449	32.34	0.05	<1	<3	62	19.5	17354	425	0.6	33.5	5.76	0.6	0.7	66.25	90
552	487708	5312487	56.80	<0.05	2	<3	19	9.8	5649	230	1.0	17.1	6.44	0.4	0.6	21.34	43
553	488099	5312241	18.35	1.53	<1	<3	43	18.3	10876	376	0.6	29.7	4.19	0.8	0.8	50.54	54
554	488736	5310740	93.20	0.69	<1	N/A	8	11.6	1010	6	1.3	8.3	0.73	N/A	N/A	7.07	38
555	487512	5311383	52.61	0.42	<1	<3	20	17.0	8028	36	1.7	15.3	4.35	0.8	0.8	24.63	67
556	486754	5311253	73.19	0.17	<1	<3	15	27.3	4088	57	1.3	17.3	2.67	0.3	0.4	20.43	112
557	486166	5311136	28.25	0.09	2	<3	30	15.9	8988	50	0.7	17.7	2.24	0.4	0.7	40.75	57
558	487046	5309571	44.64	0.19	<1	<3	43	45.1	11332	389	1.8	29.4	3.89	0.9	0.6	86.01	123
559	485624	5309894	42.12	0.16	<1	<3	45	24.4	11329	385	1.0	25.2	3.72	0.9	0.6	66.02	69
562	483547	5309023	45.37	<0.05	<1	<3	56	33.7	38183	1192	1.5	27.2	2.11	2.2	1.2	84.66	71
563	483367	5308759	50.35	<0.05	1	<3	43	52.7	17563	18	6.1	31.1	1.61	2.4	0.9	59.17	62
564	482365	5308518	48.30	<0.05	4	<3	66	22.0	15545	537	2.5	30.8	7.66	0.8	1.0	67.25	76
565	482470	5307439	57.36	<0.05	<1	<3	23	12.8	5610	88	1.9	15.7	5.16	0.8	0.8	25.78	51
566	483414	5307592	26.01	<0.05	2	<3	40	13.9	8912	93	0.6	23.2	2.96	0.7	0.5	41.34	49
567	482759	5306198	84.26	<0.05	<1	<3	12	7.4	1391	55	5.4	13.8	1.53	1.0	0.6	11.19	53
568	482882	5305831	69.68	<0.05	<1	<6	16	9.2	3049	39	1.4	8.5	2.25	<0.6	0.6	14.42	50
569	483435	5303945	63.63	<0.05	<1	<3	13	7.2	1876	<1	2.8	7.9	1.75	0.9	0.5	9.35	58
571	483450	5300993	74.72	0.08	<1	10	16	3.7	1028	<1	0.4	5.3	2.41	0.3	<0.3	25.15	7
572	483319	5299593	59.44	<0.05	<1	<3	15	7.6	4647	43	2.1	13.4	1.91	0.4	<0.3	20.4	61
573	484435	5292174	33.77	<0.05	<1	<3	27	12.6	4795	78	0.6	17.3	3.70	0.6	0.6	37.64	41
574	483982	5291650	37.72	<0.05	<1	<3	36	28.2	7212	156	1.5	26.4	2.89	0.9	0.9	45.09	66
575	482171	5286565	48.04	<0.05	<1	<3	24	38.7	5560	75	1.2	24.8	1.65	1.0	0.9	19.45	91
576	482529	5286111	56.50	<0.05	<1	<3	32	24.3	7778	221	0.4	29.2	7.76	1.7	1.4	27.84	61
577	482371	5283351	49.70	<0.05	<1	<3	18	16.8	4157	81	1.4	50.9	1.48	0.7	0.8	15.6	72
578	481707	5280848	74.68	<0.05	<1	<3	18	50.3	5719	234	2.8	32.9	3.23	0.4	0.4	29.51	134
579	481836	5277925	67.87	<0.05	3	<3	15	35.0	7513	198	2.0	24.1	1.55	0.5	0.4	25.54	105
581	481314	5273909	39.10	0.14	<1	<3	42	58.4	11253	278	1.0	34.5	3.18	1.0	0.5	67.58	73
582	481586	5272625	71.45	<0.05	<1	<3	16	25.4	4383	64	2.0	17.5	1.11	0.9	<0.3	19.73	59
583	481379	5268293	81.93	<0.05	<1	<3	17	38.0	1720	65	4.5	32.6	2.27	1.2	0.7	12.33	39
584	483131	5268215	87.55	<0.05	2	<3	14	35.3	1774	44	2.1	30.0	44.46	<0.3	<0.3	11.28	78
585	486824	5268118	48.40	0.16	5	<3	60	68.2	12760	116	5.4	28.0	5.76	1.2	0.6	52.36	117
586	487946	5267818	59.40	0.12	<1	10	158	39.7	6892	106	2.6	39.5	3.23	4.6	1.7	33.33	75
587	489102	5268546	20.56	<0.05	<1	<3	26	27.6	2919	44	0.3	22.9	8.98	0.4	<0.3	54.91	41
588	488149	5269218	79.28	<0.05	<2	N/A	34	29.2	2429	39	3.1	26.4	1.95	N/A	N/A	21.07	77
589	486831	5270244	64.56	<0.05	<1	<3	45	25.1	9364	207	1.8	29.4	5.16	0.9	0.6	46.37	56
591	483902	5269244	62.61	0.16	<1	<5	32	75.0	15608	530	4.4	28.4	3.87	<0.5	<0.5	45.91	123
592	482387	5269876	49.73	0.08	5	<3	61	67.3	7863	126	1.5	42.6	3.87	1.9	1.1	48.89	87
593	475897	5273889	65.82	0.10	<1	<3	22	54.4	4796	123	2.0	24.6	8.43	1.0	1.3	43.97	115
594	474304	5277114	41.51	0.08	<1	<3	39	39.5	12914	507	1.1	25.2	3.96	0.7	0.5	52.88	88
595	473167	5279376	63.61	0.09	<1	<3	33	41.9	8325	168	1.7	26.2	2.96	0.7	0.3	34.41	93
596	471834	5282489	59.63	0.05	<1	<10	30	22.0	8762	61	4.7	23.7	4.53	<1	<1	33.77	58
597	469252	5285310	66.95	<0.05	<1	<3	26	23.4	2933	41	2.2	17.6	2.29	1.0	0.6	27.76	67
598	466945	5287098	87.43	<0.05	<1	<10	25	18.7	7672	90	6.6	17.4	1.39	<1	<1	16.92	44
603	465390	5288700	20.82	<0.05	2	<3	32	16.4	6241	218	0.6	15.5	4.13	<0.3	0.6	51.28	28
604	468105	5286146	61.13	0.10	2	<10	59	38.6	10351	395	5.8	24.0	22.98	5.0	2.0	22.88	50
605	470125	5284095	69.60	<0.05	<1	<5	21	22.0	3282	92	3.0	11.3	3.28	<0.5	<0.5	19.56	48
606	473418	5276622	61.56	0.06	3	<3	20	29.6	1871	26	2.0	24.7	3.08	0.6	0.6	32.18	69
607	473576	5275956	61.53	0.07	6	<3	18	33.3	2290	48	3.5	22.5	1.15	0.7	<0.3	18.02	69
608	474757	5273559	54.00	0.53	9	5	48	172.4	8870	703	1.7	28.6	6.95	1.2	0.9	100.61	128
609	475114	5272823	81.13	0.21	4	<3	16	40.6	6450	471	1.7	17.3	5.13	0.6	0.6	30.48	65
611	482265	5270400	54.46	0.35	6	<3	43	60.4	9500	292	1.0	30.1	6.69	1.0	1.0	51.6	110
612	486305	5271736	45.39	0.33	8	5	59	61.8	16659	467	1.0	43.7	6.07	0.9	0.8	74.36	138
613	487087	5271984	39.48	0.26	<1	<3	69	32.1	12061	991	1.4	32.2	4.19	1.0	0.7	90.64	106

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27 Zone 17	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
		Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
614	486812	5272380	42.80	0.20	<1	<3	71	30.0	20925	781	0.9	29.8	5.18	1.1	0.6	87.28	96
615	487534	5272102	54.51	<0.05	<1	<3	67	45.2	8785	286	6.3	35.7	1.51	2.2	1.0	38.52	44
616	488337	5271868	78.66	<0.05	<2	<3	29	22.1	4264	97	5.5	21.5	2.23	2.3	1.5	12.85	80
617	488596	5270993	68.28	<0.05	<2	<5	42	34.8	7093	307	2.1	32.7	6.12	1.1	1.0	46.6	107
618	488981	5271211	69.69	<0.05	<2	<4	43	23.4	6222	217	3.2	32.6	9.29	0.6	0.8	24.73	97
619	489500	5270611	59.30	<0.05	5	<3	133	59.5	31786	288	14.8	40.5	2.38	6.7	3.4	32.31	77
621	489150	5270451	73.04	<0.05	<2	<7	41	25.5	4667	127	2.7	37.1	3.02	0.8	<0.7	29.01	83
622	488773	5270159	74.16	<0.05	5	<3	31	19.9	3900	303	1.7	24.3	5.25	0.3	0.7	21.11	127
623	489207	5269706	81.47	<0.05	<1	<3	27	55.6	5316	407	4.6	32.9	3.86	1.7	1.1	25.22	139
624	490075	5269291	54.36	<0.05	2	<3	134	75.5	9981	121	8.7	31.9	2.21	4.2	1.6	30.18	46
625	490540	5268860	74.09	<0.05	7	N/A	39	23.8	3949	97	5.9	23.2	4.64	N/A	N/A	14.45	78
626	491340	5267860	54.83	<0.05	3	<3	68	18.6	3278	88	5.1	30.7	1.18	1.9	0.9	9	34
627	491904	5268854	83.33	<0.05	3	<3	18	33.1	10612	296	1.8	23.6	1.63	0.7	0.5	13.39	93
628	492844	5268157	73.84	<0.05	3	<4	19	43.1	4819	116	2.0	14.0	1.79	1.0	0.8	16.67	78
629	493650	5269273	81.32	<0.05	5	<4	19	21.9	2136	59	3.0	12.4	2.00	1.2	0.6	15.12	57
631	493671	5269868	46.71	<0.05	<1	<3	38	35.9	8908	233	1.3	27.0	3.55	1.2	0.6	43.67	66
632	493142	5270085	35.14	<0.05	<1	<3	46	39.1	12770	389	1.0	28.8	3.67	0.9	1.0	50.05	77
633	493238	5271189	72.43	0.06	6	<6	29	33.4	6955	348	1.4	18.0	7.18	1.0	0.7	21.03	49
634	492425	5271743	58.91	0.13	3	<3	18	63.0	6299	146	2.7	19.3	3.06	1.0	0.4	25.39	76
635	490333	5271237	67.40	0.05	1	<3	16	25.8	5447	220	3.0	18.1	2.30	<0.3	<0.3	11.68	119
637	489950	5273778	62.67	0.11	<1	<3	14	21.6	20267	93	0.5	18.7	16.11	0.8	0.6	13.02	76
638	489758	5274163	42.17	0.08	<1	<3	17	17.6	54070	40	0.9	29.9	7.71	0.5	<0.3	19.77	74
639	486733	5274039	0.88	0.15	3	<3	45	22.9	14748	593	1.5	41.2	3.44	0.4	0.4	69.05	36
641	486106	5274331	47.77	0.15	<2	<3	87	56.1	139690	2207	1.6	38.7	3.85	2.1	1.5	73.74	95
642	485436	5272653	39.44	0.06	3	<3	53	41.4	13970	285	1.0	37.9	5.67	0.7	0.8	55.53	102
643	482446	5270719	53.73	0.24	3	<3	38	61.6	7886	296	1.6	28.7	4.83	0.6	0.7	46.37	95
644	481177	5269146	92.36	<0.05	3	N/A	16	17.9	2162	88	1.3	19.3	1.23	N/A	N/A	7.82	37
645	477856	5270962	67.75	0.16	<1	<3	21	124.0	4243	105	2.2	32.3	3.01	0.3	0.5	26.35	167
646	475140	5275743	67.39	0.22	1	<4	12	44.6	10089	162	2.4	22.8	49.12	<0.4	<0.4	28.33	117
647	472899	5275217	40.10	0.28	3	<3	45	49.8	66164	3032	1.2	29.0	3.98	1.0	1.1	67.54	86
648	471751	5276438	58.30	0.20	20	<3	33	55.6	11920	831	3.1	25.5	8.15	<0.3	0.4	51.23	89
649	472304	5277140	59.44	0.25	2	<3	28	46.0	5354	148	1.6	23.4	4.73	<0.3	<0.3	50.76	81
651	472161	5277382	68.63	<0.05	<1	<3	19	57.2	5224	219	2.6	24.0	4.06	<0.3	<0.3	43.81	103
653	472201	5283218	49.08	<0.05	<1	<3	98	35.8	23264	692	2.1	34.3	6.35	0.9	1.1	110.33	94
654	472995	5283998	59.40	<0.05	<1	<3	52	32.4	7411	146	4.4	33.6	4.89	0.6	0.6	54.24	94
655	472520	5284315	37.95	<0.05	<1	<3	75	28.4	50070	455	1.1	24.3	2.62	0.9	0.6	91.92	69
656	472392	5284629	65.76	<0.05	3	<8	50	38.6	9246	379	10.0	26.6	16.36	1.2	<0.8	32.61	81
657	471782	5284636	50.09	<0.05	<1	<3	104	40.0	62874	715	2.6	34.9	6.07	2.0	1.3	58.02	78
658	472006	5283910	57.05	<0.05	<1	<3	73	25.0	45879	900	1.6	22.6	3.78	1.5	1.2	71.5	82
659	471108	5283349	81.03	<0.05	4	N/A	8	38.2	1194	60	12.6	15.1	1.57	N/A	N/A	11.88	66
661	472925	5285063	30.82	3.12	1	<3	17	5.6	2422	46	0.3	8.0	5.08	<0.3	0.4	26.12	29
662	472500	5285479	70.57	1.24	<1	<3	43	24.3	3093	35	3.0	16.2	3.42	2.1	0.7	16.65	56
663	473054	5286043	34.42	0.10	<1	N/A	37	5.5	1952	29	0.6	17.1	8.65	N/A	N/A	15.57	39
664	472712	5286703	59.66	0.06	<1	19	119	55.2	26769	493	5.0	42.1	5.90	4.4	2.7	86.05	62
665	472131	5286899	13.41	<0.05	5	<3	<1	21.6	11985	1061	<0.1	48.4	3.36	2.2	1.3	31.75	19
666	471602	5286985	64.85	<0.05	2	<4	104	23.9	9430	145	3.6	33.9	3.89	3.1	2.0	98.37	109
667	471571	5286330	85.52	<0.05	2	<6	30	13.2	2165	96	1.0	18.2	2.69	<0.6	<0.6	18.04	129
668	471292	5286083	84.71	<0.05	<1	<4	26	16.6	4333	130	1.4	16.4	4.71	0.4	<0.4	19.21	179
669	470766	5285827	65.27	<0.05	2	<9	53	14.1	7115	86	2.6	16.9	9.62	2.3	<0.9	26.12	56
671	470649	5286555	87.01	<0.05	<1	N/A	20	11.0	1524	44	2.1	9.4	3.00	N/A	N/A	10.76	68
673	470376	5287421	74.96	0.18	<1	<5	52	30.4	9226	270	2.1	34.7	6.43	0.6	0.6	39.18	116
674	470119	5287950	54.51	0.18	<1	<6	68	44.9	7204	394	15.8	32.9	35.05	6.3	2.9	30.45	52
675	469455	5287462	85.91	<0.05	<2	N/A	43	21.6	10082	611	4.7	26.9	7.25	N/A	N/A	15.12	79
676	469156	5287123	70.20	0.26	<1	<3	67	44.2	3075	144	3.7	41.6	5.94	1.1	1.0	33.18	21
677	469208	5286741	75.20	0.16	2	<3	24	31.2	864	19	2.3	17.8	4.18	1.1	0.5	13.49	8
678	468935	5286274	85.79	0.07	6	<4	56	22.2	677	16	1.6	35.1	3.36	<0.4	<0.4	20.48	13
679	469140	5285806	91.67	<0.05	<1	<9	18	10.4	1542	51	0.5	11.5	2.01	<0.9	<0.9	10.4	20
681	469709	5285185	47.19	0.17	3	5	108	55.1	704	35	4.1	26.1	3.70	4.4	1.3	67.18	24
682	468884	5284838	45.02	0.08	<1	<3	67	47.3	2444	58	4.9	33.0	2.94	1.9	0.6	41.43	13
683	469096	5284148	28.78	0.07	<1	<3	83	20.2	17280	386	0.7	29.8	5.76	1.8	1.4	52.14	42
684	469036	5283854	66.16	0.29	2	<3	49	28.3	7818	85	3.2	22.3	4.17	0.9	0.7	30.4	115
688	468474	5285688	67.13	0.06	<1	<3	55	27.2	11832	117	4.1	29.9	2.94	3.3	1.8	35.84	76
689	465914	5284734	81.87	<0.05	3	<7	16	13.1	1766	201	0.6	12.9	12.84	<0.7	<0.7	12.43	120
691	467198	5286758	54.40	0.21	3	<6	55	25.8	7546	132	4.4	30.1	6.15	1.2	0.7	32.11	50

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27 Zone 17	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
		Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
692	467698	5286898	61.24	0.13	<1	<3	34	8.4	2284	108	0.4	16.6	9.00	<0.3	0.5	15.69	70
693	468639	5287093	67.90	0.49	2	<3	106	56.7	62067	1286	6.5	54.4	5.89	1.5	1.3	43.75	216
694	468351	5287616	9.41	0.12	<1	<3	24	6.3	2263	48	0.3	9.6	4.73	<0.3	<0.3	19.61	32
695	467700	5287478	26.96	0.10	<1	<3	43	13.6	5595	75	1.1	24.5	7.14	0.8	0.5	38.54	50
696	466624	5289829	90.58	<0.05	<1	N/A	19	10.9	1561	207	0.6	13.0	10.57	N/A	N/A	10.04	115
697	469314	5289050	76.74	0.14	2	<4	66	30.7	3621	112	1.9	32.4	3.35	1.5	0.4	27.05	134
698	470261	5288617	51.79	0.15	3	<3	107	40.7	17084	452	9.8	63.4	5.06	7.0	3.5	45.25	70
699	470798	5289771	27.79	0.21	<1	<3	225	73.4	9760	677	10.6	80.6	2.84	12.5	3.4	20.25	46
701	470505	5290189	39.43	0.97	<1	<3	129	48.9	12085	472	14.6	57.4	1.96	10.4	3.7	19.62	46
702	470160	5290188	26.53	0.19	2	<3	49	14.9	2724	289	4.3	46.3	1.64	2.1	0.6	12.58	16
703	469905	5289894	91.68	<0.05	<2	<10	28	9.6	1698	369	0.6	15.4	1.83	<1	<1	14.05	109
704	469620	5290214	55.74	<0.05	<1	<3	76	26.9	14865	265	6.5	26.8	2.74	6.5	2.4	26.82	51
705	470973	5290635	88.01	<0.05	<2	N/A	18	10.1	2592	154	0.6	11.9	24.14	N/A	N/A	10.69	56
706	471761	5291348	72.37	0.07	<2	<3	40	25.8	4661	163	6.9	23.2	3.79	4.4	0.8	17.77	115
707	471572	5291086	77.71	0.09	<1	<5	46	23.5	2834	117	2.5	29.3	3.56	2.0	0.7	16.94	113
708	471296	5291236	64.79	0.14	<1	<3	71	24.8	7490	201	5.1	35.0	4.49	4.3	1.4	26.76	97
709	470442	5291271	80.69	<0.05	<1	<6	18	10.0	1484	82	1.1	13.6	2.64	<0.6	<0.6	9.23	67
711	470805	5291811	72.40	0.11	4	<3	55	27.2	4909	186	2.8	27.0	5.31	1.3	0.8	22.79	142
712	469889	5292343	8.13	<0.05	<1	<3	1	4.1	3715	483	<0.1	35.5	0.14	<0.3	<0.3	2.44	7
713	472347	5292282	85.29	<0.05	<1	<3	20	12.8	1418	97	0.8	12.2	2.47	<0.3	0.3	13.49	94
714	471848	5292180	76.44	0.20	<1	<3	47	29.0	4884	290	2.0	26.9	4.70	0.7	0.7	26.15	179
715	471447	5292346	65.14	0.19	<1	<6	91	24.8	9176	339	2.1	48.3	6.67	0.9	0.9	26.11	115
716	471137	5292609	88.75	<0.05	2	<7	30	9.6	1908	146	0.7	17.0	3.97	<0.7	<0.7	11.8	113
717	471438	5293072	89.25	<0.05	9	<10	33	11.8	4034	326	1.2	18.3	4.30	<1	<1	12.61	107
718	471658	5292962	73.28	<0.05	5	<3	47	18.9	3027	84	1.6	25.2	3.94	0.8	0.7	19.81	124
719	472064	5294113	48.95	<0.05	<1	<3	99	28.2	4973	44	7.2	28.2	3.67	7.0	2.8	25.29	49
721	472591	5293867	78.98	<0.05	2	<4	33	15.9	2103	90	2.2	17.4	4.09	1.1	0.7	11.7	125
722	473016	5293850	85.89	<0.05	3	<4	28	10.6	1387	108	1.0	16.2	3.80	<0.4	<0.4	17.97	86
723	472595	5292840	69.85	<0.05	<1	<6	29	11.9	1584	94	4.0	14.1	7.35	1.6	<0.6	17.02	78
724	473758	5291429	64.94	0.13	3	<10	63	33.2	7302	79	6.0	22.1	3.75	1.0	<1	29.27	55
725	473866	5290673	58.78	0.23	<1	<3	36	22.1	6735	71	5.0	14.1	2.00	2.4	0.9	21.91	54
726	473279	5290396	63.93	0.21	<1	<4	28	15.4	4855	82	2.3	11.8	3.30	<0.4	<0.4	20.34	66
727	472441	5290073	56.61	0.12	<1	4	43	25.0	10315	60	2.7	19.9	1.78	2.9	1.5	27.23	65
728	472535	5289190	80.83	<0.05	<2	<8	34	76.8	6372	99	2.9	15.8	8.55	3.4	1.8	18.19	64
729	472266	5288486	44.46	0.26	10	<3	87	52.1	18904	467	2.6	38.0	13.05	6.6	3.1	70.54	65
731	473891	5286784	40.91	1.22	56	9	72	45.1	12387	346	2.2	59.3	10.72	2.3	1.5	46.92	52
732	473906	5286358	64.03	0.34	<1	<4	74	48.5	13674	184	5.4	40.0	2.93	3.0	1.7	52.54	61
733	475605	5283258	71.91	0.28	<1	<3	18	16.3	3577	250	0.9	14.9	3.87	0.3	0.4	22.56	91
734	475681	5282889	78.39	0.13	<1	<7	29	21.7	3438	146	1.0	19.0	2.41	<0.7	<0.7	23.87	97
735	476314	5281079	19.15	0.13	2	<3	30	17.0	6754	69	0.6	18.1	2.52	<0.3	0.4	30.56	46
736	477806	5274180	62.87	0.09	<1	<3	12	70.2	3405	83	1.3	17.4	1.39	0.4	<0.3	22.01	67
737	477325	5272521	71.81	<0.05	2	<4	11	40.1	2128	39	2.0	24.0	1.06	0.8	0.4	16.5	74
738	477628	5270721	95.52	<0.05	<2	N/A	7	12.8	1287	41	0.4	8.5	1.00	N/A	N/A	4.8	89
739	479403	5271880	71.23	0.13	5	<3	12	95.1	8336	234	1.7	21.0	2.23	0.7	0.4	21.46	121
741	478461	5273673	61.43	0.13	3	3	48	54.8	8746	135	1.6	45.1	2.18	1.8	0.8	39.44	81
742	475573	5279714	58.68	0.12	5	<3	18	52.4	4917	145	1.1	17.2	1.69	0.5	0.5	22.43	105
743	475213	5279378	48.74	0.15	<1	<3	21	53.9	5061	86	1.3	21.2	1.39	0.9	0.5	24.63	78
744	475751	5282011	54.64	<0.05	<1	<3	27	26.1	4374	79	2.2	20.3	3.76	0.9	0.4	20.3	76
745	475936	5282690	83.26	0.42	<1	<8	12	5.3	6502	172	3.6	6.1	0.98	<0.8	0.8	11.58	39
746	474592	5286467	79.19	0.20	<1	<4	12	9.9	1810	66	0.8	7.5	1.43	<0.4	<0.4	9.48	87
747	474353	5286254	66.96	<0.05	<1	<3	15	4.9	7980	45	3.2	9.5	0.95	0.8	0.7	10.91	42
748	474675	5287106	89.62	<0.05	2	<10	13	8.8	1321	148	0.6	9.4	3.01	<1	<1	13.02	68
749	474539	5287307	64.60	<0.05	<1	<3	22	14.0	9381	91	3.3	11.3	1.42	0.9	0.5	17.81	44
751	474925	5287515	59.00	<0.05	<1	<3	41	21.7	8757	161	3.1	22.3	1.96	1.9	0.8	27.46	37
752	475175	5288097	85.12	<0.05	<1	N/A	16	10.7	1052	24	1.2	9.2	1.72	N/A	N/A	16.15	39
753	474290	5287819	34.44	0.07	<1	<3	63	30.6	11456	347	1.8	29.8	5.42	1.5	1.1	47.89	48
754	473903	5288174	57.37	0.15	6	<3	158	66.7	45946	1311	3.1	34.3	3.24	4.0	1.7	158.37	81
755	473849	5287413	49.97	<0.05	4	<3	35	12.4	6130	53	2.4	16.5	1.77	1.2	0.5	23.51	46
756	473318	5287430	78.05	<0.05	<1	<10	14	10.7	2935	47	2.2	8.2	0.69	<1	<1	10.13	36
757	472849	5287824	25.36	<0.05	3	<3	46	22.3	10796	317	1.6	29.1	2.15	2.4	1.4	32.37	43
758	472289	5287838	64.13	0.05	<1	<3	66	45.7	12823	296	4.2	32.2	10.98	5.0	2.1	49.24	56
759	473269	5289005	43.33	<0.05	<1	<3	62	33.7	11304	491	2.3	30.8	8.93	2.5	1.4	53.4	56
761	475462	5289366	45.30	<0.05	<1	<3	48	19.2	9797	134	1.6	24.3	4.04	1.1	0.6	34.84	57
762	474834	5289863	73.44	<0.05	4	<3	28	12.6	5732	104	1.9	15.0	5.05	0.8	0.4	25.14	85

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27 Zone 17	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
		Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
763	474334	5289624	67.43	<0.05	3	<3	43	14.5	12634	128	2.4	11.8	3.57	1.4	0.8	36.24	43
764	473917	5290101	78.99	<0.05	<1	<3	29	13.4	3288	232	0.7	15.6	3.42	<0.3	0.3	19.76	95
765	475441	5290310	62.04	<0.05	<1	<3	41	12.6	7969	148	3.3	19.1	2.49	1.1	0.6	20.9	31
766	475887	5287700	76.71	<0.05	<1	<4	22	11.2	2496	118	1.7	16.1	2.02	<0.4	<0.4	14.61	75
768	477639	5279724	67.45	0.73	<1	<3	13	58.2	8384	215	1.5	19.4	1.47	0.4	<0.3	18.57	110
769	481226	5272376	76.93	0.08	<1	<4	12	20.5	5514	86	1.0	9.9	0.92	1.5	0.5	13.3	56
771	482337	5272934	68.55	0.49	<2	N/A	17	44.7	16940	212	2.1	20.4	47.05	N/A	N/A	22.04	125
772	480669	5278749	60.67	0.19	<1	<3	20	53.0	3042	96	1.7	27.0	1.48	0.5	0.3	23.35	76
773	479651	5281868	51.57	0.31	<1	<3	17	112.4	2239	29	1.3	20.1	1.16	1.0	0.5	17.25	74
774	479392	5285980	64.28	<0.05	<1	<3	26	38.3	4962	70	1.1	23.9	2.84	0.3	0.3	23.56	83
775	477639	5287556	30.14	<0.05	1	<3	24	12.4	5986	308	2.4	25.7	0.34	0.7	0.4	30.43	15
776	478214	5289379	17.18	<0.05	<1	<3	25	11.0	11924	85	3.9	17.9	1.21	0.6	0.6	28.23	29
777	478249	5291414	22.89	0.05	5	<3	49	16.7	11712	417	0.4	25.8	9.32	0.6	0.8	53.25	75
778	476584	5291506	52.86	0.05	<1	<3	29	31.7	4763	129	1.8	17.9	3.61	0.4	0.6	36.34	91
779	476054	5292542	38.39	<0.05	<1	<3	31	26.1	5694	83	1.1	24.0	2.86	0.6	0.7	24.74	60
781	474641	5291396	54.41	<0.05	<1	<3	41	14.1	9303	116	3.2	19.0	2.08	1.4	0.9	29.45	33
782	474397	5291933	51.05	0.09	2	<3	77	14.4	144485	1006	5.0	8.9	1.68	1.8	1.6	54.67	48
783	473719	5293373	64.99	<0.05	<1	<3	36	18.9	5598	63	2.8	18.8	23.68	1.0	1.1	25.99	86
784	475660	5294234	42.27	0.05	3	<3	21	29.6	2344	21	1.2	22.4	1.91	0.5	0.5	44.44	45
785	476205	5295456	69.03	<0.05	<1	<3	20	27.0	11287	118	2.6	19.4	1.83	0.6	0.7	20.64	78
786	476318	5296066	73.46	<0.05	<1	<3	11	10.7	1164	26	2.4	8.5	1.37	0.5	0.3	9.95	53
787	474802	5296933	67.74	<0.05	3	<3	28	23.1	1907	82	2.6	32.5	3.39	0.4	0.5	22.3	89
788	473980	5295310	74.58	<0.05	7	<4	75	50.5	12000	239	8.0	46.9	3.39	6.7	3.9	44.77	78
789	473966	5296144	59.95	0.14	<1	5	101	38.4	15000	101	5.3	55.1	8.50	7.2	3.5	62.22	74
791	473630	5295953	75.51	<0.05	<1	<3	44	30.3	4130	133	5.3	27.8	4.63	3.4	1.0	18.39	117
792	473599	5294993	84.13	<0.05	<1	<6	12	10.1	2262	105	0.7	9.0	5.29	<0.6	<0.6	10.43	76
793	473194	5295016	71.63	<0.05	<1	<3	67	26.5	17482	610	3.6	35.3	3.67	5.6	3.7	29.26	102
794	473328	5294571	84.85	<0.05	<1	<9	21	11.5	2271	192	2.1	14.3	3.07	<0.9	<0.9	12.9	121
795	472535	5294983	69.16	<0.05	<1	<3	44	14.1	2764	76	0.8	22.1	4.24	13.4	0.5	34.47	65
796	472107	5295578	74.81	0.07	<1	<3	23	15.8	2750	69	1.1	15.1	5.83	<0.3	0.4	29.98	123
797	473694	5296454	38.35	<0.05	<1	<3	55	23.9	1160	29	3.6	37.4	1.09	4.3	1.4	7.3	31
798	473674	5297130	64.67	0.13	<1	<3	80	57.9	2596	50	6.8	41.7	5.53	3.7	1.9	13.29	70
799	474574	5299398	83.38	<0.05	<1	<3	12	20.8	2202	84	3.0	16.2	27.82	1.1	0.9	7.92	94
801	474929	5300220	69.44	0.14	3	<3	42	132.6	4208	226	5.2	67.5	3.89	2.0	1.6	42.16	179
802	475833	5301929	89.04	<0.05	<1	<3	15	10.5	1135	88	0.6	12.4	1.79	<0.3	<0.3	15.33	85
803	476531	5301647	82.31	0.15	<1	<3	13	25.3	2897	31	1.2	11.7	23.71	1.0	0.7	16.34	89
804	477123	5301553	58.84	<0.05	2	<3	22	22.4	3827	33	2.5	13.5	2.22	1.5	0.7	21.38	70
805	477906	5303111	79.80	<0.05	<1	<8	14	12.5	5156	41	3.0	11.7	1.89	0.8	<0.8	15.15	45
806	477702	5304739	70.86	<0.05	<1	<10	52	47.3	12586	405	10.9	33.7	8.67	4.0	2.0	38.38	90
807	476795	5304347	69.55	<0.05	<2	<10	26	13.9	3908	166	1.5	17.2	8.47	<1	<1	22.12	131
808	476584	5304781	65.39	<0.05	2	<3	38	22.2	5677	141	1.1	27.9	4.10	1.5	0.9	30.99	90
809	477112	5305072	70.76	0.08	<1	<3	42	15.0	5506	179	1.1	17.5	3.01	0.9	0.5	17.73	81
811	477850	5305834	67.39	0.74	<1	<3	54	53.0	22178	522	15.4	38.2	7.76	4.8	2.9	48.66	103
812	477039	5305775	51.44	0.32	<1	<3	41	23.3	4694	48	1.2	21.9	3.48	1.9	0.9	35.27	69
813	476955	5306580	87.38	0.15	2	<8	21	15.9	1817	61	3.1	14.2	2.97	<0.8	<0.8	21.42	102
814	477623	5307933	81.40	0.09	<1	<9	21	10.7	1988	152	0.8	12.9	2.86	<0.9	<0.9	17.23	80
815	477187	5308333	74.42	0.11	<1	<3	25	15.3	1764	91	0.7	16.1	2.71	<0.3	0.4	25.95	99
816	477534	5308444	86.67	0.09	<1	<7	13	13.6	3008	137	1.0	11.0	2.16	<0.7	<0.7	21.31	122
817	477873	5309065	50.34	0.26	<1	<3	50	25.7	18685	959	1.4	23.8	4.73	0.7	1.0	62.84	150
818	478552	5308882	86.74	0.07	<1	N/A	19	13.4	2587	274	1.0	12.2	2.09	N/A	N/A	15.83	97
819	478140	5308564	64.33	0.11	<1	4	52	22.3	13299	180	3.0	12.7	3.60	2.2	1.1	120.39	44
821	477452	5308080	61.13	0.06	2	<3	29	15.4	5206	137	0.7	16.2	3.45	0.4	0.7	31.08	88
822	478003	5307459	41.01	0.18	<1	<3	41	31.6	73882	10248	6.1	20.5	1.57	4.6	2.0	40.41	53
823	477286	5306900	47.37	0.05	3	<3	46	22.2	87395	2882	3.5	19.4	2.59	2.3	1.7	32.92	71
824	477996	5306723	78.98	0.23	<1	4	32	31.2	6278	196	1.7	21.7	2.66	1.3	0.5	28.93	142
825	477982	5306330	71.27	<0.05	<1	<4	21	16.1	4967	235	4.0	16.0	1.83	0.7	0.4	18.97	61
826	478710	5304921	65.76	<0.05	<1	<3	27	25.0	6704	188	8.4	22.4	7.89	2.2	1.3	16.4	61
827	479146	5304790	75.54	<0.05	2	<8	40	29.4	5453	76	4.6	25.7	2.38	1.3	<0.8	27.67	40
828	479094	5304224	52.71	<0.05	2	<3	34	25.4	12162	485	4.2	21.2	5.42	2.5	1.6	41.62	52
829	479327	5303400	69.38	<0.05	<1	<3	16	8.2	6763	99	2.3	6.9	1.27	0.8	0.4	14.27	42
831	478532	5303259	79.96	<0.05	<1	<4	15	11.1	1889	30	0.8	9.7	1.87	0.5	<0.4	11.7	42
832	478304	5300492	68.20	<0.05	<1	<3	18	16.6	5127	54	2.5	18.5	2.71	0.7	0.7	18.58	83
833	477709	5296255	65.09	<0.05	<1	<3	32	36.5	10207	168	1.7	21.2	2.40	2.1	1.7	64.04	56
834	478059	5295769	45.94	<0.05	4	<3	46	29.4	11159	204	10.6	33.4	1.51	2.9	2.1	35.4	48

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27 Zone 17	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
		Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
835	478370	5294832	41.72	<0.05	<1	<3	24	23.6	4393	83	1.2	20.4	2.10	0.6	0.8	40.52	47
838	479072	5290686	55.54	<0.05	<1	<3	22	24.4	7263	210	2.2	18.4	2.93	0.6	0.7	36.82	56
839	479298	5289731	29.42	<0.05	<1	<3	45	21.6	10724	353	0.8	27.8	4.20	<0.3	0.3	57.32	48
841	477268	5288517	65.43	<0.05	<1	<3	9	6.0	2750	50	2.6	7.4	0.77	2.6	1.1	9.43	32
843	475730	5286531	85.77	<0.05	<1	<3	27	48.4	7313	174	5.1	18.2	0.86	3.4	1.3	7.47	92
844	475834	5283624	25.87	<0.05	<1	<3	42	14.0	8241	134	0.9	20.7	2.97	<0.3	0.4	36.98	56
845	475331	5281067	79.97	<0.05	3	6	42	46.3	17274	86	7.5	20.2	2.55	1.3	1.0	15.35	107
846	472767	5280814	58.58	0.07	<1	<3	19	16.8	11376	141	3.5	14.4	9.87	0.4	0.5	23.18	125
847	474743	5280275	30.61	0.11	3	<6	31	44.8	8897	111	0.7	19.7	2.20	1.0	0.7	38.2	77
848	478645	5278671	61.35	<0.05	<1	4	8	31.4	1243	65	2.0	20.3	0.89	2.5	1.5	10.34	74
849	479550	5271331	77.52	<0.05	<1	<3	9	45.0	2731	37	3.1	22.9	0.83	0.8	0.5	11.36	100
851	481054	5270735	62.25	0.31	<1	<3	33	138.2	2755	69	2.0	51.8	2.52	1.3	0.8	21.98	72
852	483799	5276155	62.92	3.77	3	<3	22	53.3	3768	89	3.5	23.0	1.31	0.8	0.7	46.34	78
853	486361	5279890	54.28	3.28	<1	N/A	40	49.5	8389	239	1.9	32.1	3.29	N/A	N/A	71.79	71
855	488998	5285082	31.33	1.32	4	N/A	18	95.9	2134	29	1.5	37.9	1.38	N/A	N/A	145.28	36
856	490501	5287768	52.18	0.64	<1	<3	58	75.8	6996	61	1.8	50.2	3.06	2.0	1.1	96.12	54
857	491629	5292229	56.73	0.56	<2	<3	46	65.6	21515	787	1.4	29.3	3.49	0.4	0.8	98.99	105
858	492325	5296114	11.15	0.23	1	<3	40	21.6	14129	736	0.6	32.3	2.72	0.7	0.8	84.74	53
859	493403	5299495	19.47	0.22	2	<3	50	19.9	11740	169	0.6	28.2	3.99	0.4	0.8	50.71	66
861	501608	5300540	47.91	0.12	<1	<3	26	44.4	3443	49	1.6	33.8	4.50	0.8	0.6	193.41	62
862	506719	5300864	90.74	<0.05	<1	<9	10	8.5	1031	57	0.6	8.8	8.44	<0.9	<0.9	9.84	49
863	511624	5298850	57.14	<0.05	2	<3	16	65.9	3221	116	3.9	17.9	3.06	0.9	0.9	75.63	66
864	511312	5298763	92.77	<0.05	<1	<8	6	9.6	1399	48	2.2	4.6	1.28	<0.8	<0.8	8.88	79
865	517413	5299746	57.05	0.31	<2	<3	43	73.4	13829	428	2.8	21.1	3.55	<0.3	0.8	223.21	73
866	518694	5299951	39.31	0.05	<1	<3	25	29.2	9391	172	1.0	19.2	5.52	0.3	0.7	133.04	50
867	518547	5298773	33.51	0.18	<1	<3	44	40.9	17391	262	1.0	21.1	3.02	0.7	0.9	198.89	74
868	520771	5298911	49.42	0.15	2	<3	30	28.3	9676	193	0.8	16.8	3.97	0.3	0.7	114.29	49
869	523422	5300123	48.99	0.16	3	<3	42	116.4	4835	60	1.4	30.7	3.48	1.0	1.0	267.45	53
871	525153	5299689	37.33	0.39	<1	<3	47	47.4	26500	904	2.5	21.8	7.44	0.7	0.9	133.48	109
872	524862	5300762	38.22	0.61	1	<3	52	59.0	67121	6747	4.6	29.1	9.38	1.0	1.1	174.31	145
873	524819	5301607	41.21	0.65	<1	<3	49	52.2	105027	20538	<0.1	25.0	10.13	0.8	1.0	167.94	132
874	525343	5301676	46.54	0.34	<1	<3	51	38.6	35150	1173	3.5	19.1	5.78	0.8	1.1	160.36	118
875	525379	5302928	47.15	5.19	5	<3	53	71.1	15488	213	2.2	27.5	7.90	1.1	1.2	137.69	125
876	524972	5303422	34.54	4.51	5	<3	51	44.7	16646	288	1.6	23.8	8.68	0.5	0.9	124.76	98
877	525025	5303997	60.92	1.66	2	<3	27	59.7	6156	229	2.2	18.6	6.48	0.8	1.5	73.41	81
878	525327	5304458	13.75	0.71	1	3	62	48.1	22492	807	1.1	37.4	7.93	1.0	1.2	147.45	126
879	524626	5306561	52.60	0.35	4	<3	23	61.0	3990	46	1.2	20.9	3.72	<0.3	0.6	167.88	51
882	524777	5307984	57.63	1.11	7	6	35	166.5	23086	326	5.1	19.3	8.37	0.8	1.0	493.78	66
883	524898	5309902	66.17	0.45	<1	<3	24	64.9	6263	164	3.8	17.3	3.48	0.6	0.9	43.41	103
884	525408	5310079	50.59	24.50	4870	6040	82	N/A	14651	344	<0.1	135.3	79.33	17.8	1.9	50.47	341
885	524752	5310402	53.52	3.41	254	193	28	249.8	8065	155	7.4	43.9	66.89	1.6	1.1	55.5	165
886	524308	5310966	54.59	1.47	8	16	29	62.6	11015	432	6.5	22.7	11.79	0.6	0.8	62.07	99
887	524292	5312253	64.45	0.66	9	6	21	94.6	6933	106	23.8	32.3	3.95	1.3	0.9	26.93	94
888	524799	5312630	66.43	0.26	4	5	7	77.6	3374	122	13.2	17.2	1.54	1.2	0.5	13.97	75
889	523807	5312635	56.79	0.38	<1	4	30	93.7	8125	140	40.0	33.7	3.18	1.8	1.2	34.47	81
891	524581	5313206	41.20	0.27	<1	<3	12	44.3	3748	37	20.4	20.2	2.37	1.2	1.0	20.6	50
892	525156	5314694	44.47	0.29	3	<3	17	100.0	3618	36	13.4	23.7	2.88	0.6	0.8	71.9	60
893	523978	5314096	59.58	0.47	<1	4	41	147.4	7493	77	35.1	50.6	5.96	1.1	0.8	47.77	53
894	524139	5315193	58.43	0.29	3	<3	29	110.4	5444	90	27.7	37.1	6.09	0.7	0.5	50	55
896	522727	5314903	62.52	0.09	3	<4	17	152.6	4994	27	15.3	33.5	13.32	0.9	0.4	79.59	65
897	522055	5315011	53.81	0.58	6	4	27	150.4	3725	145	18.5	25.3	20.90	1.4	1.2	143.25	174
898	521582	5316042	29.05	1.59	6	<3	23	112.2	6152	125	0.3	22.5	7.87	1.4	1.2	91.23	26
901	521015	5315007	70.13	<0.05	4	<3	10	113.0	6520	117	4.4	15.7	2.20	0.7	0.6	47.47	167
902	521224	5314644	50.06	0.06	5	4	21	144.3	3163	56	5.2	54.9	9.61	1.3	1.0	65.6	117
903	521502	5313968	52.67	0.28	2	4	34	231.9	6432	33	3.1	93.6	18.50	2.0	1.1	97.73	174
904	520241	5313636	42.88	<0.05	4	<3	61	84.9	3391	35	7.1	102.8	2.77	2.5	1.1	42.14	80
905	520393	5312989	57.75	0.19	8	<3	93	236.2	23267	361	7.7	153.3	2.36	4.2	2.2	65.35	491
906	520939	5312576	54.26	0.40	<1	<3	67	129.0	4666	77	12.2	111.0	22.73	2.1	1.5	53.87	376
907	521140	5313029	62.64	0.32	4	3	101	137.0	6504	153	5.5	130.8	5.00	2.4	1.7	64.11	270
908	521539	5313018	63.19	0.14	<1	<3	14	107.5	2444	97	2.6	35.2	1.67	0.6	0.7	35.09	116
909	521966	5312916	63.39	0.26	8	N/A	39	159.4	1943	36	2.2	117.1	11.79	N/A	N/A	64.37	68
911	522871	5312485	47.71	1.08	12	9	53	227.4	14258	488	20.4	54.7	9.47	1.4	1.0	80.3	143
912	521799	5312210	76.22	0.63	9	<8	13	153.6	17597	172	13.4	50.3	8.25	<0.8	<0.8	75.74	384
914	520856	5311469	34.80	0.22	9	5	49	42.0	3589	117	1.0	42.3	7.90	0.8	1.0	45.4	61

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27 Zone 17	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
		Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
915	521527	5311274	86.89	<0.05	9	3	13	71.0	1431	116	4.0	40.9	2.71	0.8	0.6	18.66	131
916	521651	5311765	63.94	0.40	10	7	41	101.5	16027	908	5.9	38.7	10.58	0.8	0.8	88.9	126
918	522465	5310431	38.44	2.26	4990	4530	35	107.6	26323	433	13.9	41.0	32.30	6.9	1.0	108.59	82
921	522241	5310037	64.94	0.11	430	480	16	31.7	3715	147	3.4	15.8	6.26	1.8	0.8	63.69	19
922	522221	5306966	64.56	<0.05	7	13	28	65.3	4149	49	2.7	35.1	2.94	0.6	0.5	160.7	53
923	521112	5306665	58.05	1.50	6	3	43	94.3	12931	280	4.7	25.2	21.69	1.6	0.9	232.88	75
924	522264	5306227	67.95	0.47	<1	<7	28	68.3	4819	77	2.6	41.2	2.18	<0.7	<0.7	158.73	56
925	523119	5306357	71.47	<0.05	<1	<3	19	35.2	2389	85	1.8	22.2	3.52	0.4	0.4	82.27	71
926	523777	5306581	47.62	<0.05	<1	4	15	54.1	1452	17	1.8	16.3	1.78	0.4	0.4	183.18	23
927	523765	5305997	61.23	0.23	<1	<3	10	94.5	4162	66	3.8	12.9	2.24	0.3	0.4	95.27	91
928	523722	5304263	81.63	<0.05	<1	<3	7	23.3	3080	48	0.5	10.9	8.93	<0.3	0.4	58.57	17
929	522973	5304292	51.57	<0.05	2	<3	32	53.7	8536	201	1.3	19.9	3.49	0.4	0.6	121.93	63
931	522332	5302847	31.53	<0.05	1	<3	9	29.1	1169	14	0.8	11.1	6.12	<0.3	0.4	64.05	16
932	523555	5302470	42.60	<0.05	<1	<3	45	42.1	10216	175	1.3	22.0	3.59	0.5	0.8	157.04	59
933	523154	5301734	34.65	<0.05	7	<3	52	64.7	26050	634	4.0	31.0	2.71	0.6	0.9	295.5	107
934	523505	5301362	46.78	0.24	6	<3	56	101.8	9263	312	2.7	21.5	5.17	0.7	1.0	260.15	81
935	523114	5300978	38.93	<0.05	2	<3	13	43.2	2499	37	1.5	12.7	3.45	<0.3	0.5	92.35	20
936	521590	5299819	52.05	<0.05	<1	<3	14	39.5	4422	85	3.8	13.8	2.42	0.4	0.6	62.79	63
937	521125	5300065	41.47	<0.05	2	<3	25	48.1	4720	56	1.3	24.4	2.17	0.4	0.7	184.95	35
938	520214	5300025	45.57	<0.05	2	<3	15	28.0	3174	60	1.3	15.1	2.41	<0.3	0.4	57.91	36
939	520087	5299484	45.09	<0.05	<1	<3	24	55.7	4064	64	2.7	33.4	1.76	2.8	0.9	96.59	46
941	519650	5299998	45.57	<0.05	6	<3	7	7.8	3468	72	0.3	3.6	1.14	1.5	0.8	34.08	12
942	520302	5300507	43.87	0.32	1	5	24	37.0	3088	40	1.0	17.6	3.88	0.4	0.4	82.34	35
943	520129	5301528	37.10	0.16	13	<3	33	35.2	6083	119	1.1	16.9	1.94	1.0	0.7	226.9	32
944	520817	5302144	39.65	1.40	6	<3	37	36.2	7071	99	0.8	23.2	2.93	0.5	0.6	175.81	68
945	521374	5302253	58.43	0.65	7	<5	29	34.8	3796	18	8.3	30.8	1.60	<0.5	<0.5	128.85	50
946	521918	5301661	24.71	0.24	12	<3	44	56.7	11168	169	1.1	23.5	4.98	0.9	0.8	176.82	49
947	521238	5302851	54.22	0.08	6	<3	12	21.8	4137	60	0.6	10.0	11.18	<0.3	0.3	84.3	14
948	521379	5303451	56.04	<0.05	5	<6	16	40.4	1947	59	2.0	23.3	4.72	<0.6	<0.6	78.42	36
949	520472	5304039	50.58	0.21	4	<3	35	68.4	10276	246	1.0	24.3	5.17	0.5	0.6	164.3	58
951	519882	5303942	54.96	0.26	3	<3	28	120.7	4790	142	2.4	20.4	4.91	1.0	0.7	154.45	108
952	520771	5303288	28.22	0.19	<1	<3	27	66.0	5401	42	0.6	24.7	16.99	0.9	0.6	124.18	33
953	520479	5302840	34.86	0.42	2	<3	24	53.6	5019	230	1.2	23.2	4.42	1.3	0.6	173.94	44
954	520173	5302317	45.24	0.10	5	<3	27	53.6	5931	243	1.0	25.8	2.01	0.8	0.6	110.93	52
955	519597	5301570	44.61	0.24	6	<3	58	61.8	18710	304	1.2	32.4	4.12	0.9	1.1	195.35	77
956	518751	5301335	64.29	<0.05	<1	<4	32	51.1	3701	44	1.0	32.8	2.00	<0.4	0.5	145.93	48
957	518129	5300914	62.98	0.06	1	<3	19	47.3	6252	144	0.9	15.8	2.72	0.3	0.4	86.09	49
958	518008	5301349	62.04	0.18	4	<3	19	75.6	7979	153	1.8	16.4	4.63	0.4	0.4	93.66	84
959	517434	5301017	14.98	<0.05	<1	<3	38	29.8	11210	831	0.9	27.2	2.80	1.2	1.0	105.54	65
961	517295	5301451	77.65	<0.05	7	<12	18	52.2	4298	92	1.8	14.6	1.93	<1	<1	79	157
962	514493	5301196	51.80	<0.05	1	<3	40	43.1	8839	138	1.4	30.0	2.60	0.6	0.3	150.05	67
963	512540	5300811	41.43	<0.05	2	<3	11	27.0	2449	44	1.7	10.0	1.49	<0.3	0.3	83.5	28
964	508865	5299451	49.79	<0.05	3	<3	21	53.2	2762	46	2.1	21.7	1.91	1.0	0.7	167.57	27
965	508258	5299053	46.88	<0.05	4	<3	20	23.8	2208	30	1.0	18.8	3.23	0.3	0.3	82.32	19
966	508233	5298675	39.24	<0.05	1	<3	21	28.1	2367	33	0.7	15.3	2.36	0.6	1.1	79.37	25
967	502982	5299249	35.28	<0.05	3	<3	16	33.8	2345	29	1.4	20.3	10.77	0.6	0.5	74.89	66
968	497163	5298891	69.21	<0.05	3	<4	53	97.5	3724	127	2.4	85.7	4.46	1.2	1.1	179.38	135
969	493951	5295815	48.07	<0.05	2	<3	24	55.6	6772	120	1.2	15.3	8.79	0.6	0.6	93.28	47
971	493506	5293971	75.15	<0.05	<1	<5	23	33.3	3014	90	1.2	28.3	3.72	<0.5	<0.5	41.02	65
972	492804	5292970	43.59	0.17	2	<3	16	118.5	5110	113	1.8	25.2	1.84	1.3	0.9	66.84	77
973	491361	5290577	33.31	0.19	<1	<3	52	49.8	9248	415	0.7	33.2	3.33	1.8	0.9	128.48	59
974	491550	5289742	33.76	0.12	<1	<3	52	76.6	9477	273	1.9	47.3	2.93	2.9	1.2	120.9	61
975	490160	5286554	40.40	0.10	3	<3	55	60.5	9446	363	1.7	34.4	2.70	1.7	1.2	90.54	66
976	488492	5284017	40.35	0.16	3	<3	59	57.2	9238	393	1.5	34.6	2.85	1.5	1.1	109.08	72
977	487328	5283062	60.15	0.07	<1	<3	16	51.7	4771	148	3.0	25.8	3.11	0.3	0.5	33.3	76
978	486485	5282109	43.39	<0.05	<1	<3	15	31.6	1501	21	1.7	25.7	1.47	2.4	0.5	23.68	41
979	485325	5278259	57.59	<0.05	<1	<3	9	30.9	1370	69	1.4	27.1	1.26	<0.3	0.5	14.29	68
981	485408	5277697	52.63	<0.05	<1	<3	17	29.8	5305	87	1.0	26.6	3.42	0.7	0.7	26.99	53
982	485073	5275111	45.93	0.51	<1	<3	7	47.8	1165	47	2.5	14.9	1.28	0.3	0.3	27.5	42
983	482060	5269695	63.79	0.08	4	<4	35	44.7	1886	37	2.3	50.8	1.20	2.8	1.6	20.34	43
984	481500	5273850	59.73	0.16	11	8	21	54.3	14992	167	1.5	27.6	2.02	0.5	0.6	35.4	121
985	483987	5275661	76.31	<0.05	<1	<4	16	46.1	1507	81	2.5	16.1	1.05	<0.4	<0.4	27.15	80
986	484026	5279529	58.67	0.22	5	<3	33	39.8	12064	897	1.9	25.8	4.88	<0.3	<0.3	77.6	106
987	485859	5281629	42.12	0.42	2	<3	104	140.6	94625	2784	1.9	59.4	3.60	8.2	3.8	146.32	56

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
	Zone 17	Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
988	485971	5284050	58.78	0.15	3	<3	40	38.3	5019	235	1.9	24.9	4.80	1.5	1.0	47.94	65
989	485674	5284803	63.75	0.19	<1	<3	36	43.9	5383	248	2.2	25.0	3.76	1.5	0.9	39.34	76
991	485737	5285546	65.97	<0.05	<1	<3	23	23.9	2766	110	1.1	19.3	15.92	0.9	0.8	24.31	41
992	486667	5287537	55.26	0.09	<1	<3	54	39.2	7677	330	1.8	31.6	5.56	0.9	0.9	80.85	75
993	487301	5288372	52.88	0.16	<1	<3	40	49.9	15969	836	2.4	29.6	5.38	1.1	0.9	54.69	90
994	488642	5290345	46.07	0.79	<1	<3	93	86.8	22405	670	5.0	55.0	4.97	2.7	1.6	267.72	146
995	488667	5292887	25.50	0.36	<1	<3	30	104.6	4731	53	0.7	21.1	5.59	1.1	0.6	222.89	24
996	490999	5297798	34.79	<0.05	<1	<3	34	57.2	8342	333	1.5	38.1	4.11	3.1	1.4	56.55	36
997	491032	5298899	11.79	<0.05	2	<3	34	12.2	8227	197	0.3	30.5	3.67	<0.3	0.4	44.53	35
998	493254	5300870	18.58	<0.05	<1	<3	52	21.2	15677	334	0.9	31.1	5.97	0.4	0.6	63.12	72
999	497091	5302648	11.79	<0.05	3	<3	115	22.4	23980	586	0.4	126.8	6.16	0.5	0.7	101.74	82
1001	482995	5269401	50.03	0.07	<1	<3	63	71.8	9786	308	2.2	35.2	5.06	1.3	1.6	57.26	100
1002	482510	5269212	65.06	0.05	4	<3	40	82.5	4727	158	3.6	47.2	2.11	1.3	1.0	36.53	81
1003	482819	5269976	45.59	<0.05	<1	<3	51	55.0	12337	540	1.6	27.9	8.14	1.0	1.2	56.98	108
1004	484512	5281426	3.98	<0.05	5	<3	17	8.2	5461	188	0.3	16.1	1.18	<0.3	0.4	24.68	30
1005	484842	5280317	31.34	<0.05	7	4	52	32.3	9680	412	0.7	37.2	9.19	0.7	0.9	53.82	117
1006	485689	5279624	18.65	<0.05	<1	<3	39	25.5	10334	486	0.4	30.1	5.75	0.6	0.7	45.66	101
1007	486361	5278387	38.33	<0.05	<1	6	52	41.8	11714	528	0.8	38.0	4.43	0.9	1.1	60.33	164
1008	486756	5277346	5.03	<0.05	2	<3	59	44.7	8076	103	1.4	54.7	2.45	0.9	0.8	46.91	96
1009	486398	5276964	10.05	<0.05	<1	<3	61	67.5	20268	149	3.8	72.8	3.86	1.6	1.5	53.05	145
1011	486858	5276568	20.02	<0.05	<1	<3	21	13.9	10063	220	0.3	17.4	4.12	0.5	0.6	26.93	46
1012	487668	5276096	25.07	<0.05	2	<3	39	19.3	12655	505	0.4	24.6	6.39	0.9	0.7	50.13	84
1013	487390	5277837	30.04	<0.05	3	<3	114	33.0	21369	707	0.6	56.4	12.45	1.7	1.2	66.56	134
1014	487922	5277596	35.07	<0.05	<1	<3	68	26.9	19313	581	0.7	30.9	5.24	0.7	1.0	72.83	106
1015	491009	5278151	40.03	<0.05	<1	<3	71	27.2	68650	3797	1.2	28.8	4.33	0.8	0.8	77.9	97
1016	489726	5277485	45.02	<0.05	5	<3	46	14.6	20055	1112	0.4	23.9	5.26	0.5	0.6	53.58	83
1017	488569	5277246	50.00	<0.05	<1	<3	58	36.8	13531	130	2.3	38.1	4.21	0.9	0.7	62.42	116
1018	486964	5275672	55.06	<0.05	18	<3	25	10.6	8470	295	0.4	16.6	2.31	<0.3	0.6	33.23	45
1021	478134	5272339	65.03	0.32	<1	<3	37	58.8	7257	401	1.1	25.0	9.21	0.7	0.7	59.09	91
1022	478560	5271870	70.04	0.17	<1	<3	39	61.6	6559	169	1.0	29.1	2.88	0.7	1.0	52.31	72
1023	479383	5271600	75.02	0.20	7	3	15	57.2	2433	53	0.9	20.1	2.34	<0.3	0.7	20.74	49
1024	479468	5270780	80.01	0.18	<1	3	31	74.3	4962	137	1.1	29.3	4.48	0.6	1.0	39.34	66
1025	478643	5271158	85.06	0.35	2	<3	33	93.5	6554	171	1.9	29.3	2.47	0.9	1.0	56.05	92
1026	478890	5270563	90.02	0.54	<1	<3	48	83.9	7893	543	1.3	28.4	6.65	0.8	1.0	90.75	112
1028	478427	5269180	95.03	0.45	2	<3	45	73.2	10162	604	1.2	27.7	5.86	0.7	0.9	98.38	138
1029	469192	5263258	17.04	0.14	<1	<3	33	14.4	8422	304	0.6	16.2	3.04	0.3	0.6	57.24	53
1031	468428	5264067	21.79	0.12	<1	<3	45	15.7	9337	382	0.6	20.4	2.80	0.4	0.6	71.58	61
1032	468178	5265244	31.35	0.17	1	3	47	15.8	12804	387	0.5	18.6	6.60	0.6	0.9	77.82	66
1033	467875	5266690	30.86	0.25	<1	<3	48	24.8	17317	430	1.4	24.7	23.50	0.5	0.6	79.08	81
1034	467566	5268138	17.21	0.13	7	<3	47	16.5	14815	346	0.6	22.6	4.26	0.4	0.7	70.04	55
1036	466573	5266062	24.42	0.18	<2	<3	62	20.6	27262	670	1.0	23.3	8.68	0.5	0.6	115.13	101
1037	478936	5269114	51.56	<0.05	N/A	N/A	133	205.2	13433	609	3.1	62.9	10.89	N/A	N/A	260.69	273
1038	478506	5267818	45.11	0.44	3	<3	41	62.1	13469	820	1.4	24.4	25.30	0.6	0.6	96.02	145
1039	477927	5268355	39.99	0.33	6	<3	54	80.2	24473	580	1.8	30.1	3.43	0.9	0.8	105.3	153
1041	477619	5269510	45.48	<0.05	2	<3	54	82.2	11087	334	1.4	28.0	3.63	1.0	1.2	98.43	120
1042	477019	5268202	30.03	<0.05	<1	<3	49	50.4	15296	369	1.4	28.6	2.64	0.9	0.9	82.68	116
1043	477696	5267424	45.44	<0.05	<1	<3	48	65.2	7570	313	1.3	26.6	3.73	0.6	0.9	84.78	88
1044	478961	5266644	56.73	<0.05	<1	<3	20	40.9	2796	118	1.0	20.3	1.69	0.4	0.6	69.09	32
1045	479575	5267066	39.75	<0.05	<1	<3	33	45.2	5008	179	1.2	23.9	2.53	0.5	0.7	69.28	77
1046	480292	5267416	30.48	<0.05	<2	<3	61	44.8	22818	349	1.3	43.2	16.38	0.6	0.8	68.96	142
1048	482502	5276447	48.94	<0.05	<1	<3	56	36.1	8408	193	1.4	38.1	4.67	<0.3	0.7	43.32	83
1049	482942	5275514	44.36	<0.05	4	<3	56	49.4	10563	454	1.3	35.4	6.09	0.6	0.9	62.7	114
1051	474891	5295283	47.76	<0.05	<1	<3	62	33.5	70817	7523	2.5	32.1	4.20	1.1	1.2	70.35	102
1052	474267	5294876	48.70	<0.05	<1	<3	91	43.1	9960	1018	2.4	44.1	10.47	1.2	1.5	66.26	114
1053	474788	5293716	38.84	<0.05	<1	<3	56	26.7	67560	3943	1.5	28.6	16.97	1.0	1.0	55.54	84
1054	474462	5293583	77.67	N/A	<1	<3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.9	0.9	N/A	N/A
1056	475347	5292928	17.14	<0.05	2	<3	60	20.9	11560	279	0.6	28.6	3.78	0.8	0.9	52.22	68
1057	476766	5290767	18.45	<0.05	<1	<3	45	17.4	11045	349	0.7	25.1	4.58	<0.3	0.4	48.22	41
1058	477682	5290652	45.73	<0.05	2	<3	14	16.2	2676	58	1.5	19.2	1.85	<0.3	<0.3	20.08	45
1059	476731	5289320	21.09	<0.05	<1	<3	62	19.4	10009	208	0.7	31.7	4.30	0.5	0.7	48.79	45
1061	476920	5288316	54.25	<0.05	<1	<3	50	20.7	8825	134	2.4	33.5	3.97	0.6	0.5	34.36	45
1062	477263	5289241	59.37	<0.05	<1	<3	46	37.0	4914	93	3.2	33.9	10.42	1.0	0.8	30.09	59
1063	476130	5290040	46.36	<0.05	<1	<3	70	42.2	20960	1191	5.2	36.0	5.25	1.5	1.3	50.29	79
1064	476098	5291133	2.93	<0.05	12	<3	12	3.4	3755	47	0.2	6.0	1.26	<0.3	<0.3	30.78	8

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27 Zone 17	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
		Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
1065	483202	5276426	31.61	0.20	8	<3	86	41.6	26477	1029	1.0	43.0	6.45	0.6	0.8	76.96	151
1066	482908	5277118	41.45	0.30	7	<3	74	61.2	15447	1371	1.7	41.1	6.10	0.7	0.7	81.79	164
1067	482425	5278270	32.99	0.25	4	<3	56	40.6	16727	1144	1.5	33.8	5.54	0.4	0.8	70.24	101
1068	482103	5278984	19.63	0.15	<2	3	65	25.6	11154	267	0.6	34.9	3.17	0.4	0.6	57.75	76
1069	482227	5279524	16.37	0.14	7	<3	84	21.8	12581	309	0.4	43.8	2.86	0.7	0.8	58.11	75
1071	480865	5276862	17.34	0.13	39	<3	35	17.5	8358	242	0.5	18.1	2.16	<0.3	0.5	42.13	47
1072	479417	5276649	23.96	0.09	<1	<3	40	24.0	7444	185	0.5	18.9	2.64	1.1	0.6	50.12	54
1074	480930	5276107	29.87	<0.05	<1	<3	40	25.3	7660	196	0.7	20.8	2.35	0.9	0.6	45.64	56
1076	483732	5274680	36.93	0.08	<1	<3	69	44.7	12370	329	0.8	36.2	3.60	1.3	0.9	65.63	95
1077	484077	5273980	29.34	<0.05	<1	<3	55	29.5	11156	300	0.7	30.1	4.10	1.0	0.7	61.2	81
1078	484343	5272330	55.90	<0.05	<1	4	63	72.8	15995	464	2.8	61.3	5.06	2.5	1.2	51.01	99
1079	481596	5277146	6.65	<0.05	5	<3	15	7.3	4241	91	0.2	8.7	1.36	0.6	0.4	28.52	24
1082	477053	5277410	39.53	0.08	4	<3	55	41.6	8289	457	1.0	26.1	4.48	0.9	0.6	57.15	75
1083	478151	5278041	30.10	<0.05	4	<3	49	30.6	9698	322	0.8	23.1	3.86	0.9	0.6	54.84	75
1084	477552	5278388	2.18	<0.05	<1	<3	16	6.4	5392	141	0.2	8.7	1.12	0.8	0.3	27.53	25
1085	476325	5278700	33.55	<0.05	4	<3	59	39.8	11753	458	0.8	27.1	3.90	1.2	0.9	65.36	88
1086	475640	5278151	33.18	<0.05	7	<3	48	31.0	7991	182	0.9	28.2	3.36	0.7	0.5	45.91	59
1087	474967	5277873	44.34	<0.05	<1	N/A	36	25.6	7936	424	1.0	19.4	3.62	N/A	N/A	40.53	70
1088	474500	5278770	49.68	1.52	11	6	38	34.8	8320	438	1.2	20.5	4.54	1.3	0.7	41.83	91
1089	473634	5278443	48.39	0.83	3	<3	33	29.2	5900	240	1.6	21.6	2.83	1.0	0.7	31.96	69
1091	473776	5277867	53.28	0.36	3	<3	343	38.2	8600	160	2.0	32.8	2.35	1.4	0.5	37.35	78
1092	477088	5279047	38.27	0.25	2	<3	51	44.0	22070	1270	1.3	27.2	11.32	0.8	0.5	66.85	140
1094	476816	5303487	51.88	0.15	<1	<3	119	63.1	10569	478	14.4	66.8	3.85	7.4	3.6	45.97	93
1096	475577	5301040	41.94	0.05	<1	<3	79	32.9	13065	451	1.5	43.8	7.53	1.8	1.2	71.39	95
1097	473708	5300337	19.05	0.05	5	<3	62	23.7	13645	517	1.3	30.7	6.33	0.8	1.0	85.89	82
1098	473367	5299250	24.58	0.14	<2	<3	67	30.4	71371	12503	1.5	42.8	5.71	1.6	1.1	109.36	109
1101	482101	5293614	71.28	0.10	1	<3	32	26.3	8087	482	1.7	31.1	2.83	1.0	1.0	51.7	64
1102	481239	5292857	38.60	0.12	<1	<3	70	36.2	22537	1013	3.2	37.9	5.82	1.4	1.0	70.88	92
1103	482639	5292462	25.23	<0.05	<1	<3	58	21.1	12030	315	0.6	30.7	3.92	1.0	0.8	61.68	74
1104	482387	5291130	26.80	0.06	<1	<3	50	17.1	11691	340	0.6	24.2	5.93	0.9	0.6	55.77	64
1105	482968	5290221	39.53	0.20	2	<3	61	24.9	18595	2778	1.5	29.6	12.34	1.1	0.6	86.06	124
1106	483707	5289109	37.72	0.22	<1	<3	66	27.6	37329	3355	1.8	34.3	5.87	1.4	0.7	93.07	120
1108	480144	5297751	17.90	0.07	<1	<3	33	18.7	6740	261	0.5	21.8	3.19	1.0	0.3	49.59	46
1109	479166	5299042	24.06	0.05	3	<3	46	20.6	12091	457	0.7	27.2	12.62	0.8	<0.3	51.79	69
1111	479922	5299594	60.55	0.17	2	<3	86	48.5	56644	1844	2.8	40.5	7.07	1.8	1.7	69.71	86
1112	480711	5300105	25.21	<0.05	<1	<3	57	27.4	14416	191	1.3	33.7	2.99	1.9	0.6	49.41	42
1113	480557	5299773	59.53	2.30	<1	<3	60	32.5	9526	247	2.7	33.1	4.57	1.8	0.9	46.52	61
1114	478733	5299853	38.32	1.52	5	<3	52	40.5	21040	690	1.8	49.4	4.24	2.8	1.2	54.74	71
1115	477959	5300038	44.49	0.59	3	<3	68	30.5	12644	292	1.0	39.6	5.28	1.8	1.2	75.77	92
1116	476865	5300138	59.96	0.30	<1	<3	59	60.2	22570	536	4.8	61.6	5.00	0.8	1.4	61.34	77
1117	476554	5301114	68.86	0.15	<1	<3	43	48.3	12095	125	2.4	43.1	6.44	1.8	0.6	57.52	89
1121	471310	5302663	52.66	0.12	<1	<3	39	53.0	8936	236	2.0	35.4	8.38	1.5	0.3	81.24	56
1123	474050	5304500	15.08	0.21	3	<3	55	21.3	19140	749	1.0	32.6	27.64	0.9	0.4	77.31	85
1124	473871	5306083	18.50	0.14	<1	<3	49	18.7	19433	887	0.9	27.2	19.09	0.6	<0.3	72.26	81
1126	472850	5309610	3.94	<0.05	2	<3	10	3.5	3026	104	0.2	6.0	2.27	<0.3	<0.3	27.94	12
1127	472312	5310591	40.75	0.12	<1	<3	32	35.1	9791	354	0.6	19.5	19.00	1.2	0.7	74.69	49
1128	471651	5309820	80.24	<0.05	<1	<3	12	18.7	6504	365	1.4	11.8	5.51	0.7	<0.3	30.38	18
1129	471400	5310400	16.47	<0.05	<2	<3	38	14.8	17211	615	0.4	21.9	3.54	0.8	0.3	67.57	68
1131	471000	5311500	25.28	0.19	6	<3	65	27.5	38206	1560	0.7	39.2	5.40	1.2	0.7	109.08	113
1132	471460	5313339	21.24	0.23	<2	<3	67	24.4	48264	2232	0.6	38.8	11.67	1.0	0.5	122.29	133
1134	473490	5306950	36.80	0.06	<1	<3	57	31.0	11134	290	1.2	34.9	3.54	0.9	1.2	64.55	67
1135	463509	5294835	25.44	0.08	7	<3	47	21.2	26520	1462	0.9	19.8	4.37	0.7	0.9	167.37	94
1136	462691	5293937	4.19	<0.05	<1	<1	19	6.1	6179	246	0.3	8.7	3.62	0.3	<0.3	38.41	17
1137	462767	5291019	1.93	<0.05	<1	<3	20	6.4	5777	203	0.2	9.6	3.88	<0.3	0.4	34.01	24
1139	463263	5288866	17.06	0.08	<2	<3	71	23.4	38078	3403	1.4	32.2	12.90	0.7	1.0	97.96	78
1141	478961	5266644	13.14	2.30	2	6	64	20.3	15158	490	0.5	27.5	4.34	0.7	0.6	100.08	65
1142	485209	5301019	16.75	0.86	<1	<3	19	6.9	7062	161	0.6	11.3	3.17	0.4	0.5	30.54	27
1143	484526	5301202	59.46	<0.05	5	<3	39	15.2	7261	112	3.4	23.1	2.94	0.7	0.6	28.32	43
1144	484427	5302701	10.37	0.08	<1	<3	32	5.9	18314	368	0.4	15.5	4.04	<0.3	0.5	36.88	38
1145	483391	5303074	58.93	<0.05	<1	<3	36	14.6	11222	114	3.4	21.0	4.83	0.8	0.5	26.33	41
1146	482762	5303572	51.27	<0.05	<1	<3	34	11.8	8941	142	1.5	19.7	3.83	0.7	0.7	33.83	34
1147	482538	5302639	58.73	<0.05	4	<3	38	16.8	15449	143	3.1	21.4	2.74	0.8	0.7	33.59	47
1151	465250	5277100	23.21	0.18	3	<3	81	33.0	20228	803	6.0	31.3	13.87	1.3	1.0	88.66	74
1152	465100	5278550	16.85	0.25	<2	<3	88	29.8	23559	711	1.3	37.8	16.25	0.9	0.9	101.09	89

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27 Zone 17	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
		Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
1153	465400	5279450	75.16	<0.05	<1	<3	42	22.0	6968	134	1.8	17.6	5.19	0.7	0.7	20.73	93
1154	465100	5280300	22.45	0.20	4	<3	85	30.0	46931	4401	2.5	34.5	6.50	1.0	1.0	110.05	101
1157	463800	5283950	11.71	0.11	7	<3	65	15.7	12793	186	0.7	27.5	4.48	0.3	0.7	77.05	51
1158	464300	5284950	15.00	0.16	<2	<3	121	27.3	20689	333	1.2	50.4	6.02	1.0	0.9	95.94	69
1162	463950	5296900	14.99	<0.05	<2	<3	39	13.7	16175	408	0.4	18.7	4.56	<0.3	0.5	89.91	57
1163	464150	5296950	12.79	0.22	<2	<3	63	18.9	22954	552	0.8	31.4	11.31	0.3	0.6	99.38	83
1164	463950	5298600	9.36	0.36	<2	<3	52	15.2	18678	475	0.4	25.2	6.88	0.4	0.6	85.6	59
1167	519250	5314700	38.25	0.58	<2	4	91	61.6	36771	1680	2.8	41.6	8.05	1.1	1.0	201.68	142
1168	519450	5313950	38.22	0.20	12	8	58	32.0	55458	2362	1.7	28.4	6.51	1.2	1.1	124.21	140
1169	520200	5311300	35.14	0.37	7	6	78	40.0	22296	499	1.6	32.7	7.90	1.0	0.9	152.32	117
1171	519401	5312400	25.88	0.84	38	12	83	57.7	29174	2347	1.7	58.2	9.66	1.5	0.9	208.82	176
1172	519300	5309500	33.22	0.49	6	<3	80	46.5	29953	773	1.1	42.2	6.94	1.2	1.0	193.48	154
1174	518500	5306170	31.91	0.36	4	4	83	52.2	43568	3048	1.4	47.0	13.36	1.9	1.1	213.97	161
1175	517650	5304190	32.98	0.56	3	<3	89	45.7	32153	739	1.4	42.3	10.01	1.3	0.9	178.72	131
1176	518600	5304150	13.42	0.36	3	<3	50	37.7	15739	632	0.8	32.9	6.20	1.2	0.9	110.5	78
1177	516850	5303100	25.75	0.36	4	<3	81	39.6	27853	1666	1.0	43.4	7.45	1.1	0.9	159.44	117
1178	516350	5302000	23.82	0.21	<1	<3	74	34.1	21999	1563	0.9	39.5	5.61	1.0	0.9	128.35	99
1179	515950	5301100	22.26	0.13	<1	<3	61	27.9	16225	776	0.7	31.4	5.00	0.8	0.7	108.66	82
1181	516000	5299700	38.04	0.29	<1	3	80	136.8	35874	872	4.4	68.7	6.42	3.9	1.9	207.63	113
1182	514250	5300500	30.38	<0.05	3	<3	37	20.9	5075	216	0.4	14.3	2.91	0.4	0.7	67.86	14
1183	513800	5299700	31.39	0.10	25	24	77	42.1	24457	1454	1.7	42.9	10.83	1.3	1.0	166.83	142
1185	477819	5271621	73.46	<0.05	<1	<3	10	44.7	1174	57	1.6	26.1	0.77	<0.3	0.6	8.78	78
1186	478242	5278510	61.06	<0.05	3	<3	6	17.0	760	31	1.6	15.8	0.66	<0.3	0.3	7.23	45
1188	480034	5279635	55.95	<0.05	<1	<3	38	52.8	6818	518	1.0	21.9	4.28	0.6	0.7	50.25	143
1189	479185	5284798	75.96	<0.05	<1	<3	11	45.8	8116	103	1.1	17.2	1.01	0.3	0.7	7.82	154
1191	479988	5286947	77.63	<0.05	<1	<3	26	28.0	5697	197	2.0	21.4	3.27	<0.3	0.4	17.09	113
1192	480861	5288563	69.75	<0.05	<1	<3	13	39.5	7999	122	2.4	22.9	2.50	<0.3	0.5	33.93	101
1193	480242	5288745	47.72	<0.05	<1	<3	22	19.6	3265	77	1.2	23.7	2.30	<0.3	0.5	37.44	67
1194	483705	5290110	48.77	<0.05	<1	<3	22	34.2	3184	96	2.1	25.1	2.27	0.5	0.5	29.55	64
1195	480557	5297079	77.43	<0.05	<1	<3	37	20.5	5400	157	1.8	20.5	2.38	0.8	0.7	26.71	94
1196	479780	5298861	92.78	<0.05	<1	<6	9	8.5	1209	28	1.7	8.4	24.42	2.5	1.2	6.38	69
1197	480931	5299611	71.27	<0.05	<1	<3	66	38.5	107634	1398	2.4	15.5	1.55	2.4	1.1	37.8	53
1198	480318	5300249	58.95	<0.05	<1	<3	16	24.2	3406	97	1.5	20.1	12.64	1.4	0.9	27.09	30
1199	479476	5300924	62.29	0.11	4	18	36	26.5	11847	275	1.0	26.5	75.69	0.7	0.6	45.17	107
1201	480515	5301836	83.24	<0.05	<1	<3	13	10.1	3786	80	1.9	8.1	9.84	0.8	0.6	9.71	81
1202	479965	5302110	56.69	<0.05	<1	<3	76	36.1	123158	911	3.0	15.7	6.05	2.8	1.7	43.05	60
1203	479275	5301654	61.50	<0.05	<1	<3	37	15.7	8438	185	1.4	21.2	6.63	0.8	1.0	49.95	61
1204	478867	5301387	76.97	<0.05	5	<3	40	16.3	9433	86	2.9	22.6	8.37	0.4	0.3	54.86	56
1205	478423	5302042	27.55	<0.05	1	<3	<1	7.8	5281	197	<0.1	20.7	6.30	1.0	0.5	11.69	22
1206	479092	5302446	74.93	<0.05	<1	<3	20	15.3	7485	142	3.7	15.1	1.94	1.2	0.7	15.92	39
1207	479918	5302734	63.60	<0.05	<1	<3	34	13.2	11306	116	3.0	13.5	2.21	1.2	0.7	34.08	49
1208	480485	5303054	81.08	<0.05	<1	<3	13	12.2	8303	119	3.8	9.5	1.71	0.5	0.4	13.13	76
1209	480749	5303653	74.67	<0.05	27	<3	49	31.7	18338	156	6.4	21.2	5.08	2.1	1.1	36.12	50
1211	480495	5304216	49.12	<0.05	2	<3	<1	10.7	5710	157	<0.1	21.8	1.01	0.6	0.3	12.19	21
1212	481026	5304897	49.55	<0.05	6	<3	32	13.8	7534	84	2.6	21.3	2.34	0.4	0.6	29.72	37
1213	481694	5305929	78.21	<0.05	<1	<3	16	11.0	2096	54	1.1	14.7	3.05	<0.3	<0.3	19.8	79
1214	481094	5306297	75.82	<0.05	<1	<3	20	12.3	3051	82	1.1	16.8	3.37	<0.3	<0.3	26.19	88
1215	481282	5307610	52.07	2.45	<1	<3	38	16.3	16879	174	10.6	21.8	2.10	1.3	0.9	45.31	37
1216	481672	5307843	68.67	0.41	<1	<3	19	12.7	3643	63	2.8	16.8	2.26	<0.3	<0.3	25.88	82
1217	481829	5307028	36.24	<0.05	<1	<3	21	8.7	7512	338	1.0	16.0	3.67	0.8	0.7	28.5	24
1218	483812	5305644	93.23	<0.05	<1	N/A	7	6.2	1167	140	0.5	7.4	1.73	N/A	N/A	8.55	101
1219	483239	5305368	48.49	<0.05	<1	N/A	41	15.5	18989	777	1.7	23.8	3.47	N/A	N/A	45.07	66
1221	482509	5304634	66.92	<0.05	<1	<3	23	11.4	5003	93	6.2	17.2	4.97	0.6	0.5	26.71	85
1222	481546	5302714	71.69	<0.05	<1	<3	18	9.9	11040	203	4.2	8.6	8.08	0.9	0.7	16.94	46
1223	481086	5302173	2.38	<0.05	4	<3	16	3.2	4612	53	0.2	10.2	2.57	<0.3	<0.3	26.02	20
1224	481325	5301450	64.56	<0.05	5	<3	31	16.1	5320	69	1.1	22.0	5.29	<0.3	<0.3	40.97	76
1226	481627	5301021	82.12	<0.05	<1	<3	16	12.8	2147	39	1.2	10.0	4.35	<0.3	<0.3	15.76	105
1229	482213	5297699	27.22	<0.05	59	<3	11	3.8	1116	29	0.2	4.8	6.19	<0.3	<0.3	18.17	24
1231	485711	5293905	46.89	<0.05	<1	<3	17	60.7	2377	35	1.4	20.8	3.01	<0.3	0.3	213.04	39
1232	486011	5289798	55.50	<0.05	<1	<3	18	26.0	2651	57	1.2	29.7	7.08	0.4	0.6	43.69	36
1233	486011	5289201	57.79	<0.05	4	<3	31	32.7	7411	160	1.9	24.5	2.80	0.5	0.6	59.94	89
1234	484684	5287378	71.09	<0.05	<1	<3	24	33.2	7176	488	2.2	18.0	2.34	1.2	0.9	19.06	170
1235	483232	5284140	75.66	<0.05	<1	<3	10	55.9	1235	55	3.7	47.8	1.21	<0.3	<0.3	17.58	227
1236	483124	5282432	56.34	<0.05	<1	<3	17	13.5	4559	151	0.8	17.2	6.31	<0.3	0.4	21.32	103

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27 Zone 17	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
		Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
1237	482858	5279798	58.28	0.18	<1	N/A	41	42.7	13450	238	2.2	54.1	2.57	N/A	N/A	41.81	157
1238	483389	5279356	61.60	0.19	<1	<3	19	44.1	7663	263	2.2	25.5	2.64	0.4	0.5	56.71	96
1239	482890	5280603	67.34	0.25	<1	<3	23	91.3	11146	222	2.2	42.6	2.49	0.5	0.3	91.9	195
1241	483053	5281835	52.61	0.09	5	<3	21	32.6	3016	114	1.2	45.0	2.14	0.6	0.8	32.16	90
1242	485122	5284695	53.92	<0.05	<1	<3	26	29.0	3666	88	3.3	19.2	2.81	1.1	0.8	22.23	48
1243	487939	5287983	55.15	<0.05	7	<3	21	28.4	3029	40	1.3	26.1	18.24	0.5	0.6	53.5	53
1244	487621	5288800	53.82	<0.05	<1	<3	24	34.9	2573	34	2.1	25.7	2.72	0.5	0.7	56.87	50
1245	488114	5291719	56.10	0.06	<1	<3	25	30.9	1885	50	0.8	27.1	4.76	<0.3	0.5	67.45	78
1246	488108	5294434	87.34	<0.05	<1	<3	16	38.4	7881	237	1.9	25.0	1.38	0.6	0.5	21.82	96
1247	487696	5297913	61.58	<0.05	<1	<3	54	26.1	12514	81	4.4	22.7	2.06	1.5	0.9	31.4	56
1248	488942	5299759	40.90	<0.05	<1	<3	22	17.7	6178	159	1.1	19.9	3.14	0.3	0.7	25.99	60
1249	490785	5300606	28.29	<0.05	<1	<3	36	21.6	9388	133	2.4	30.5	2.94	0.5	0.6	48	64
1251	491829	5300833	15.34	<0.05	<1	<3	59	18.0	14274	311	0.4	43.5	4.78	<0.3	0.5	66	58
1252	492658	5301230	15.13	<0.05	<1	<3	55	17.3	16118	436	0.4	42.8	9.87	<0.3	0.6	67.61	56
1254	496024	5304753	49.60	0.25	<1	<3	43	43.9	7830	783	1.4	26.2	4.69	0.7	0.9	61.47	130
1255	497822	5306762	68.07	0.07	<1	<3	37	55.0	10962	333	2.1	41.9	3.08	1.2	0.8	29.78	89
1256	498926	5309924	49.40	<0.05	<1	<3	35	31.1	7139	98	1.3	32.0	4.64	0.3	0.6	81.75	55
1257	499357	5310531	49.31	<0.05	3	<3	27	27.2	5077	55	1.1	26.5	3.65	0.4	0.5	91.74	49
1259	499725	5313830	37.63	0.08	5	<3	23	28.0	3142	55	0.6	17.6	2.90	<0.3	<0.3	139.43	46
1261	501095	5313393	41.57	0.63	1	<3	50	48.1	9988	281	1.7	25.8	7.71	0.7	0.7	246.23	98
1262	501852	5313451	57.44	0.21	<1	<3	23	35.4	4093	163	1.7	28.0	15.00	0.3	0.7	113.54	67
1263	501453	5314409	53.54	0.15	2	<3	33	39.7	5108	91	1.6	24.1	3.39	0.4	0.9	131.5	68
1264	501193	5315451	51.41	0.21	1	<3	33	30.8	10684	206	1.2	25.4	6.04	0.4	0.7	121.83	79
1265	501636	5315772	48.96	0.10	<1	<3	22	26.1	3635	62	1.3	20.9	2.54	<0.3	0.6	57.83	60
1266	502908	5314700	43.79	0.12	<1	<3	38	24.0	10066	298	0.9	22.0	4.91	0.4	0.7	129.18	81
1267	503304	5314950	39.09	0.10	3	<3	36	27.1	6217	203	0.7	21.3	3.57	0.8	0.9	114.3	65
1268	503881	5315467	69.35	<0.05	<1	<3	18	17.7	6514	195	1.1	15.8	3.38	<0.3	0.6	31.81	59
1269	503926	5315129	58.89	<0.05	<1	<3	24	19.4	4764	138	1.3	16.5	2.18	0.4	0.6	40.65	55
1271	504292	5314719	51.65	0.11	5	<3	30	26.6	4453	84	3.8	20.3	2.90	0.3	0.6	52.82	59
1272	504859	5313962	58.85	0.05	1	<9	18	25.2	2475	45	2.7	16.8	1.30	<0.9	<0.9	36.69	55
1273	504253	5313610	60.40	0.10	<1	2	18	23.6	7055	271	1.6	14.8	2.32	0.4	0.6	39.06	61
1274	503826	5313109	58.98	0.08	<1	<3	16	28.8	2565	70	1.8	20.2	2.38	<0.3	0.3	28.1	84
1275	503088	5312560	30.05	<0.05	2	<3	23	23.9	3840	83	0.6	17.7	3.87	0.6	0.7	113.31	49
1276	503079	5312024	23.11	<0.05	<1	<3	23	16.2	4618	124	0.5	13.4	3.51	<0.3	0.9	108.01	41
1277	503520	5311135	32.46	0.16	<1	<3	42	40.9	13583	820	2.1	25.6	4.61	0.7	0.8	190.88	114
1278	503530	5310367	37.75	0.25	2	<3	49	53.8	19690	1174	2.4	29.7	5.45	0.7	0.7	224.63	149
1279	504620	5311113	56.86	0.23	<1	<3	20	37.8	2528	32	1.7	23.1	4.01	0.3	0.7	81.24	88
1281	503995	5312488	50.13	1.45	3	<3	29	38.7	5295	69	3.5	16.5	1.96	2.4	1.6	53.31	81
1282	504821	5312850	27.08	0.55	<1	4	46	26.5	9646	220	1.0	24.5	4.02	0.7	0.7	95.62	68
1283	504685	5313297	67.03	0.21	<1	<5	17	25.6	4105	87	2.2	14.9	2.47	<0.5	0.6	35.46	51
1284	505295	5313456	71.35	0.08	<1	N/A	8	30.7	576	14	2.2	15.1	0.69	N/A	N/A	23.9	57
1285	506540	5313334	48.35	0.11	<1	<3	30	22.8	3781	127	2.2	19.8	2.08	0.4	0.6	44.22	49
1286	506846	5313089	72.99	0.16	<1	<4	40	25.4	1598	60	0.7	41.8	2.79	<0.4	0.6	78.15	87
1287	506827	5313318	70.83	0.07	<1	<3	26	10.2	1397	63	0.6	15.3	2.65	<0.3	0.4	21.08	54
1288	508089	5315696	27.84	0.21	2	<3	33	40.8	7985	436	1.6	38.2	1.99	2.9	1.2	69.64	34
1289	507527	5315656	85.93	<0.05	<1	<4	8	13.3	1276	39	1.3	16.9	0.80	<0.4	<0.4	7.78	58
1291	508293	5316077	30.31	0.25	<1	<3	34	41.4	6084	117	1.0	24.9	2.39	1.9	0.8	55.99	36
1292	509092	5315981	34.31	1.65	<1	<3	48	179.4	21397	1086	1.5	62.6	2.95	3.0	1.3	106.53	68
1293	509377	5315790	53.79	0.44	3	<3	22	26.6	3132	127	1.0	21.6	18.29	<0.3	0.6	69.16	47
1294	509106	5315667	32.31	0.30	3	<3	34	36.5	6975	114	1.1	22.7	3.08	0.6	0.7	88.83	61
1295	506129	5312735	51.92	0.11	<1	<3	18	27.8	3098	38	2.5	19.2	1.34	0.3	0.5	34.65	58
1296	505660	5312454	26.37	0.19	1	<3	46	25.1	9311	255	1.3	23.6	3.94	0.7	1.2	91.32	71
1297	506181	5312081	40.60	0.09	<1	<3	32	39.8	4870	60	2.0	25.2	2.69	0.5	0.8	77.3	59
1298	506196	5311267	33.30	0.10	1	<3	19	15.9	3529	81	0.9	15.2	2.64	0.3	0.7	55.04	40
1299	505617	5311064	41.52	0.15	4	<3	25	26.4	3882	69	1.2	21.4	2.23	0.5	0.8	106.54	41
1301	501492	5303278	25.15	4.15	5	<3	100	42.6	12948	272	1.1	125.4	5.06	1.3	1.3	113.68	72
1302	503830	5304446	48.81	2.19	3	<3	63	57.2	8434	259	1.1	49.2	6.20	2.2	1.7	129.91	98
1303	504939	5307377	38.46	1.13	2	<3	41	44.0	6844	258	1.2	29.1	4.24	1.3	1.2	204.61	73
1304	507371	5309134	53.65	0.31	4	<3	59	47.8	7089	117	2.2	33.5	2.91	1.0	0.9	189.71	74
1305	508341	5309306	49.93	0.31	4	<3	40	67.0	3220	37	1.7	23.3	2.30	0.7	0.8	188.95	52
1306	508000	5309660	18.16	<0.05	3	<3	13	18.0	2051	26	0.4	10.4	2.73	<0.3	0.5	55.84	15
1307	507507	5310136	41.28	0.08	3	<3	74	46.4	21802	1036	1.9	37.6	3.87	1.9	1.6	149.93	116
1308	507072	5310681	43.41	0.06	<1	<3	67	42.5	15701	1083	2.1	30.2	5.74	1.8	1.6	131.01	101
1309	507753	5310763	43.82	0.21	<1	<3	55	47.3	10015	417	2.3	32.5	18.85	2.1	1.9	106.09	85

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
	Zone 17	Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
1311	507580	5311154	67.57	<0.05	<1	<4	70	61.8	10220	198	2.9	49.8	3.63	1.9	1.2	107.47	58
1312	508106	5311352	50.13	<0.05	3	3	64	83.7	11388	407	2.2	43.9	3.14	2.3	2.0	115.35	77
1313	508560	5311756	24.30	0.16	6	<3	45	66.8	9061	288	1.6	21.3	4.01	0.9	1.0	176.36	58
1314	508046	5311982	43.74	0.09	3	<3	61	85.8	21119	892	3.3	38.2	6.82	1.7	1.4	130.52	87
1315	507055	5311885	11.04	<0.05	<1	<3	43	8.4	9830	132	0.4	22.3	1.37	<0.3	0.5	27.45	25
1316	506842	5312412	53.33	<0.05	4	<3	51	40.0	23781	845	5.7	23.2	5.52	1.0	1.1	74.7	98
1317	508447	5312686	42.89	0.09	<1	<3	61	46.5	17818	427	1.5	26.1	5.15	1.4	1.3	205.85	71
1318	508049	5313272	50.97	0.16	3	<3	90	61.7	31982	561	1.7	34.2	3.29	2.3	1.8	258.9	89
1319	506987	5313898	56.59	<0.05	<1	<3	40	35.0	9621	336	3.5	31.0	11.58	1.7	1.1	44.61	52
1321	508332	5314425	77.30	<0.05	4	<6	14	21.8	1512	39	1.7	11.9	1.17	0.9	0.9	14.64	51
1322	508898	5314647	43.39	0.19	<1	<3	29	25.4	2982	57	0.7	17.2	3.42	<0.3	0.6	36.84	54
1323	508992	5315033	39.44	3.48	2	<3	32	34.8	3436	41	0.9	26.2	3.79	0.5	0.7	107.3	51
1324	508350	5315300	53.60	2.71	<1	<3	81	135.6	12956	258	4.0	62.8	2.39	7.5	3.2	135.35	56
1325	517716	5311552	58.40	1.19	5	<3	19	66.6	2013	33	2.2	29.7	3.46	0.7	0.7	112.26	44
1326	516603	5312878	52.47	1.11	6	<3	51	108.4	8858	555	6.7	52.5	47.43	1.3	1.0	159.32	88
1327	515687	5313688	58.13	0.81	<1	<3	29	79.4	10268	270	3.3	22.8	6.64	0.5	0.8	195.7	83
1328	517936	5313605	59.21	0.44	<1	<3	31	76.2	6873	89	6.6	66.9	6.31	0.8	0.6	59.35	89
1329	518303	5313937	70.23	0.20	3	<3	29	76.2	2057	42	5.5	86.7	1.82	0.4	<0.3	54.94	62
1332	516892	5315715	49.87	0.38	2	<3	16	71.0	2139	30	2.5	42.0	2.19	0.8	0.5	60.35	41
1333	515512	5315913	38.66	0.23	<1	<3	21	27.0	4979	114	1.3	13.8	4.01	0.5	0.4	77.32	52
1334	513950	5314477	59.65	0.14	<1	<3	16	39.9	1656	47	1.8	15.1	1.48	0.4	0.4	73.62	70
1335	513195	5313410	45.73	0.08	<1	<3	26	24.3	5394	69	1.2	19.2	1.89	<0.3	<0.3	89.06	58
1336	511788	5313007	47.95	<0.05	<1	<3	23	17.4	3253	34	0.4	20.6	3.13	<0.3	0.4	63.03	35
1337	512927	5314893	63.89	0.05	<1	<3	19	34.9	3612	48	2.2	18.5	2.65	0.4	0.6	39.65	63
1338	512358	5315980	51.25	<0.05	5	<3	32	46.2	6050	72	9.1	25.5	1.77	0.9	1.0	103.35	58
1339	509949	5313491	41.09	<0.05	<1	<3	16	29.1	2346	30	0.7	17.1	7.32	0.3	0.6	78.46	30
1341	509397	5311294	28.27	0.27	5	<3	14	77.3	1909	25	0.9	12.0	2.62	0.6	0.7	132.72	19
1342	509541	5310618	40.48	0.08	2	<3	6	34.1	727	18	2.5	10.8	1.19	<0.3	0.5	38.17	19
1343	509994	5310701	24.30	<0.05	<1	<3	13	29.2	2133	22	0.5	11.0	5.29	0.5	0.7	67.92	19
1344	510013	5310137	28.16	0.16	5	<3	15	46.0	2171	28	0.7	12.5	4.38	0.5	0.6	117.85	19
1345	510503	5309268	63.82	2.18	<1	<3	20	31.9	2621	39	4.4	9.7	1.98	<0.3	<0.3	43.54	53
1346	511006	5309562	34.92	1.19	<1	<3	23	21.7	3032	69	0.9	17.5	5.36	0.3	0.6	92.38	38
1347	511959	5308770	31.24	0.51	<1	<3	25	18.2	3366	73	0.7	16.7	8.63	<0.3	0.4	123.55	50
1348	513148	5310097	37.79	0.19	3	<3	20	14.8	4073	76	0.4	15.8	21.38	0.3	0.6	63.06	46
1349	513540	5310404	55.91	0.06	2	<3	29	30.5	3723	101	1.2	29.9	7.61	<0.3	0.5	129.84	60
1351	513700	5311200	46.15	0.31	<1	<3	37	27.6	11106	388	1.0	20.9	7.09	0.3	0.5	136.76	79
1352	515464	5311429	38.50	0.15	1	<3	18	17.6	3328	40	0.5	14.7	3.05	<0.3	0.4	62.82	41
1353	515792	5309989	45.54	<0.05	4	<3	26	21.1	2506	36	0.7	22.7	11.05	<0.3	<0.3	113.58	46
1354	516513	5309253	51.45	0.20	<1	<3	53	36.7	7655	204	1.0	25.2	5.33	<0.3	0.6	183.92	71
1355	517090	5309034	51.56	<0.05	2	<3	21	25.5	1758	30	0.8	21.2	7.83	<0.3	0.4	130.57	24
1356	517282	5310114	34.22	<0.05	2	<3	19	17.6	3611	72	0.6	14.2	5.64	0.4	0.6	77.28	44
1357	516434	5310304	49.42	<0.05	<1	<3	15	22.2	1305	21	1.7	22.5	2.80	0.3	0.5	50.47	41
1358	516662	5313300	68.13	<0.05	<1	<3	11	310.3	8356	135	59.1	27.4	1.58	0.6	<0.3	72.03	148
1359	523710	5310442	65.81	0.22	7	3	13	89.1	13214	243	10.7	18.5	3.28	<0.3	0.6	29.66	163
1363	521396	5308756	50.46	<0.05	56	37	26	45.1	3448	83	1.9	33.7	5.11	0.5	0.6	105.93	51
1364	520224	5307603	64.93	<0.05	2	<3	26	51.2	14436	509	3.1	21.0	3.90	0.6	0.7	80.79	115
1365	520200	5305279	45.33	<0.05	6	<3	28	47.0	5373	132	1.0	18.8	4.64	<0.3	0.6	126.48	53
1366	519928	5306020	67.93	0.34	2	<3	15	66.5	3919	62	1.0	14.2	3.82	0.4	0.5	94.63	110
1368	518206	5304568	64.03	0.38	<1	<3	12	39.6	2282	59	2.3	16.2	3.25	0.5	0.6	45.41	66
1369	519154	5302398	39.58	0.74	<1	<3	25	38.8	5956	110	1.3	18.2	4.93	<0.3	0.7	102.36	46
1371	518496	5302160	47.38	0.85	<1	<3	21	39.7	4707	94	1.2	16.7	4.18	<0.3	0.6	86.99	43
1372	517654	5302549	55.26	0.80	<1	<3	23	43.9	11615	294	1.3	16.0	5.86	0.3	0.6	116.41	59
1373	515432	5303105	40.31	0.40	1	<3	13	29.4	2058	30	0.8	12.6	4.28	<0.3	0.4	102.06	22
1374	515174	5302483	37.07	0.22	2	<3	16	27.7	2360	51	1.5	13.2	5.28	0.5	0.6	117.72	21
1375	514040	5301881	48.16	0.32	<1	<3	29	66.1	3148	56	1.9	20.3	3.11	<0.3	<0.3	210.54	44
1376	511862	5301578	30.43	0.41	4	<3	27	38.5	4048	116	1.2	12.2	3.19	0.5	0.7	146.34	39
1378	504847	5300079	25.64	0.21	<1	<3	29	36.8	5554	112	0.5	22.6	7.08	0.7	0.8	92.31	46
1379	502489	5300668	51.02	0.34	4	<3	38	48.9	4552	78	1.9	29.3	7.24	0.6	0.7	207.27	72
1381	497836	5299777	51.66	0.19	<1	<3	45	46.3	5798	148	2.0	53.6	2.87	0.5	0.8	54.69	77
1382	497174	5299728	61.52	0.26	<1	<3	52	56.7	3856	83	2.7	70.3	4.27	0.7	0.8	69.66	82
1383	493727	5298257	53.30	0.23	<1	<3	21	45.4	3726	120	1.5	18.2	2.79	0.6	0.8	53.16	58
1384	491437	5294398	43.28	0.14	<1	<3	29	44.1	2026	32	1.2	32.0	1.71	0.3	0.5	117.47	42
1385	490999	5294234	27.52	0.23	4	7	33	30.8	4714	80	0.3	23.8	8.54	0.6	0.6	126.94	41
1386	489467	5290256	45.73	0.24	4	<3	65	69.2	6437	150	1.6	56.3	3.04	0.6	0.9	111.15	68

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
	Zone 17	Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
1387	489466	5288965	45.27	0.10	6	<3	49	38.5	8207	135	0.8	37.8	3.87	0.8	0.9	93.72	48
1388	488079	5286017	54.48	0.41	<1	<3	48	39.2	21636	824	1.7	25.1	5.75	<0.3	0.6	127.2	110
1389	487556	5286006	45.89	2.57	2	<3	57	45.1	8730	210	0.9	28.2	5.06	0.5	0.7	118.48	68
1391	486245	5283233	59.47	0.37	<1	<3	17	31.4	1556	41	1.9	19.1	1.83	0.3	0.5	20.29	72
1392	484917	5278099	49.29	0.09	<1	<3	15	37.4	4195	59	1.8	23.8	1.78	0.4	0.3	21.95	47
1393	484705	5275225	51.55	0.10	<1	<3	10	54.4	1292	70	2.5	17.7	1.64	0.5	0.6	20.66	53
1394	483234	5277574	54.72	<0.05	<1	<3	24	21.3	2970	56	0.7	21.7	2.70	0.6	0.6	33.87	58
1395	482896	5278542	45.67	0.07	<1	3	26	39.0	4871	82	1.9	34.0	1.70	0.7	0.8	25.86	66
1396	483385	5280630	55.99	0.20	<1	<3	22	38.2	7155	154	2.1	29.8	3.64	0.4	0.5	53.87	98
1397	484183	5284303	55.23	<0.05	3	<3	23	23.4	2421	83	1.3	25.6	1.99	0.5	0.5	24.91	57
1398	486314	5288168	71.16	<0.05	<1	3	36	36.6	5359	63	2.7	33.9	1.83	0.7	0.4	55.69	63
1399	487341	5290883	33.55	0.06	2	<3	39	41.6	3923	36	0.9	40.5	4.95	0.7	1.0	97.46	49
1401	487786	5294734	31.45	0.15	<1	2	59	43.0	11137	251	0.9	30.9	3.99	1.2	1.0	136.23	75
1403	491570	5296988	25.25	<0.05	<1	<3	53	31.2	9509	288	0.9	26.2	8.17	0.9	1.0	109.89	69
1404	492279	5299097	25.98	0.19	<1	<3	49	15.7	12521	412	0.5	25.4	4.23	0.4	0.9	53.89	76
1405	495588	5300087	45.44	<0.05	<1	<3	27	26.6	2960	62	2.0	20.6	2.72	0.5	0.7	32.81	41
1406	499433	5301726	36.17	0.41	<1	<3	529	45.9	13988	394	0.9	479.5	8.73	1.1	1.4	111.95	87
1407	502621	5303225	63.37	0.10	2	<3	18	32.3	1896	58	2.2	39.4	3.68	1.5	1.1	54.66	52
1408	503440	5303048	48.57	<0.05	<1	<3	19	40.4	1443	25	1.3	54.3	3.37	1.5	0.8	91.44	46
1409	504359	5303498	46.50	<0.05	4	<3	31	40.0	4322	86	0.9	40.0	3.43	<0.3	<0.3	142.39	44
1411	504110	5305022	48.70	1.83	5	4	62	57.8	9397	381	1.4	54.2	8.21	2.0	2.0	143.71	110
1412	504493	5305183	40.98	1.03	<1	<3	42	70.6	6424	304	3.1	48.6	18.89	1.0	1.1	147.67	116
1414	506118	5306611	36.85	0.51	2	N/A	36	58.1	5532	74	1.8	34.1	5.87	N/A	N/A	182.9	60
1415	506201	5306172	40.46	0.28	1	5	42	47.4	7295	262	1.7	35.5	4.73	1.0	1.1	191.12	87
1416	506906	5305918	56.98	0.05	<1	<3	36	13.6	9154	143	3.4	25.0	2.26	1.1	0.9	36.37	48
1417	506699	5306029	60.20	<0.05	<1	5	29	13.5	5897	37	2.9	32.0	1.85	1.4	0.8	57.92	45
1418	507219	5305389	67.93	<0.05	2	5	40	19.9	7271	171	3.0	23.9	10.66	1.2	0.8	33.8	67
1419	506774	5305090	71.87	<0.05	<1	<8	24	14.6	5798	69	2.5	10.0	1.36	1.0	<0.8	24.95	48
1421	506470	5304104	24.06	<0.05	2	4	32	12.1	3326	40	0.4	16.4	5.40	0.4	<0.3	24.61	35
1422	507070	5304262	37.00	0.08	1	4	53	35.6	7529	281	1.0	30.2	4.71	1.0	0.6	170.09	66
1423	507686	5304262	33.75	0.13	5	3	76	39.9	8760	192	1.5	39.2	5.69	1.5	1.1	164.43	62
1424	508126	5304441	6.94	<0.05	<1	<3	<1	18.8	1672	79	<0.1	53.1	0.16	1.1	<0.3	7.12	10
1425	508659	5303698	87.14	<0.05	<1	<8	25	28.8	1090	22	2.5	30.2	1.05	<0.8	<0.8	19.13	49
1426	508028	5303537	39.45	<0.05	<1	<3	74	30.4	4800	65	1.8	40.9	3.26	1.9	0.7	37.07	28
1427	507667	5303419	51.77	<0.05	<1	<3	77	39.4	6350	122	2.7	41.7	3.02	1.2	0.5	92.54	50
1428	506835	5303174	31.67	<0.05	<1	<3	31	20.9	4905	147	0.7	16.3	4.43	0.4	0.5	93.07	39
1429	506483	5303038	51.40	<0.05	2	<3	19	54.8	1644	42	2.0	24.5	1.51	0.6	0.4	142.13	53
1431	506059	5302822	57.50	0.58	3	9	35	96.2	15411	561	3.2	20.5	3.24	0.8	0.6	316.39	83
1432	506722	5302449	58.22	<0.05	<1	<3	9	14.5	1412	38	1.7	14.4	1.79	0.3	0.4	10.19	53
1433	508332	5302946	32.71	1.35	<1	<3	28	40.8	3324	41	0.5	38.8	4.95	0.4	0.5	50.03	41
1434	509344	5303645	52.83	0.52	<1	3	38	58.7	10116	414	3.5	24.6	6.19	1.7	1.6	157.32	76
1435	509826	5304173	49.73	0.51	6	<3	26	73.2	3988	38	4.0	26.5	2.89	1.5	0.9	274.28	45
1436	509448	5304276	78.83	0.09	<1	<3	29	25.0	2667	60	1.8	56.2	1.14	4.2	2.1	7.57	97
1437	509524	5304619	44.88	0.33	<1	<3	23	60.3	5268	97	4.5	35.3	3.03	1.9	1.4	82.82	65
1438	508852	5304282	51.94	<0.05	2	<3	28	38.9	4121	67	2.6	31.8	4.27	1.7	1.3	45.03	62
1439	508567	5304936	76.87	<0.05	<1	<11	15	11.8	1036	30	2.6	8.2	0.95	2.0	<1	7.14	47
1442	509581	5306538	20.77	<0.05	6	<3	15	34.1	2025	19	0.2	7.6	4.52	<0.3	0.4	171.32	9
1443	509290	5306411	33.05	0.06	5	<3	20	52.9	3684	71	0.6	10.0	8.52	0.7	0.7	363.13	18
1445	507974	5306071	24.55	0.08	1	<3	62	31.4	7796	258	1.3	30.3	4.83	1.1	1.0	120.33	54
1446	507436	5305893	65.02	<0.05	<1	<3	27	14.8	4432	75	3.9	17.7	2.35	1.4	0.8	22.99	57
1447	507488	5306395	39.30	<0.05	2	<3	56	23.6	10232	114	1.9	26.0	3.25	1.0	0.8	103.19	62
1448	508577	5306637	70.20	<0.05	<1	<3	38	31.5	3357	98	2.8	36.8	2.34	0.4	<0.3	28.24	104
1449	508452	5306976	84.55	<0.05	<1	<3	14	13.3	1860	81	1.6	12.1	3.86	<0.3	<0.3	13.16	84
1451	508522	5308220	36.87	<0.05	1	<3	26	40.8	3037	26	3.6	15.6	3.36	1.0	0.8	101.8	49
1452	507872	5308102	51.17	<0.05	6	<3	46	39.1	5393	44	2.0	35.4	3.94	0.7	0.7	108.75	69
1453	507693	5307536	42.88	<0.05	2	<3	46	28.6	5127	29	1.9	25.1	3.32	0.9	0.7	132.17	48
1454	507333	5307869	37.35	<0.05	2	<3	35	42.2	4299	25	2.8	27.6	3.72	0.5	0.5	103.82	57
1455	510698	5308254	58.01	0.26	2	<3	33	47.5	6208	85	1.3	23.2	3.68	<0.3	0.4	136.68	93
1456	511371	5307832	56.82	1.25	1	<3	36	35.7	6112	115	0.7	20.9	9.10	<0.3	0.6	121.82	84
1457	512124	5306591	54.20	0.93	<1	<3	21	34.8	2406	38	1.2	24.9	6.09	0.4	0.6	132.47	35
1459	512041	5305881	52.13	0.06	N/A	N/A	10	10.5	864	19	0.8	13.1	25.27	N/A	N/A	5.13	51
1461	512503	5307510	38.83	0.12	4	<3	43	38.9	42436	1528	5.7	28.7	7.69	0.7	1.0	224.98	161
1462	513104	5308504	37.13	0.05	1	<3	40	28.9	6544	245	0.9	18.0	6.99	0.4	0.6	148.03	70
1463	514514	5309827	27.50	<0.05	2	<3	23	18.5	6038	92	0.5	16.5	8.72	<0.3	0.5	49.64	63

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
	Zone 17	Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
1465	514928	5307787	34.84	<0.05	1	<3	44	25.6	10129	321	1.6	24.4	4.75	<0.3	0.5	149.86	85
1466	514333	5306374	45.79	<0.05	1	<3	30	31.8	3930	53	1.3	20.5	2.49	<0.3	0.4	210.06	50
1467	513493	5304992	45.51	<0.05	1	<3	27	30.3	4609	90	1.2	19.5	5.15	<0.3	0.6	212.31	42
1468	516628	5306143	50.23	<0.05	4	<3	47	30.4	6743	159	1.8	25.1	5.76	0.5	0.6	145.44	76
1469	516954	5307471	42.49	<0.05	2	<3	16	28.0	1878	24	0.9	16.6	3.78	<0.3	0.5	110.38	19
1472	516360	5308418	45.99	<0.05	3	<3	25	26.5	3434	71	1.1	27.7	4.34	0.3	0.6	107.76	44
1474	518073	5308418	64.09	<0.05	4	<3	26	47.6	3402	39	2.4	23.9	1.87	0.4	0.4	122.2	43
1475	517863	5307897	64.65	<0.05	5	<16	38	67.8	3888	87	4.5	30.1	2.11	<2	<2	169.22	70
1476	516991	5305435	43.18	<0.05	4	<3	32	41.4	6213	103	2.1	22.6	2.55	0.5	0.7	124.24	52
1477	516883	5304976	38.55	<0.05	2	<3	42	34.4	6778	370	1.6	16.9	3.70	0.4	0.8	130.18	61
1478	515491	5304358	38.74	0.32	2	<3	36	39.4	6867	172	1.4	14.2	7.85	0.3	0.5	154.09	58
1479	514973	5304258	36.39	0.53	1	<3	40	41.3	8163	176	2.0	15.8	3.86	0.6	1.0	149.31	63
1481	514753	5303549	31.15	1.33	<1	5	19	17.4	2231	51	0.5	9.6	3.91	<0.3	0.6	62.37	31
1482	513866	5303267	55.72	1.51	4	<4	22	48.7	3010	45	3.6	17.4	2.03	0.5	0.5	174.24	50
1483	512916	5302999	10.86	0.57	<1	<3	23	31.4	4639	156	1.6	10.0	1.77	0.5	0.6	120.76	33
1484	511968	5303082	34.95	0.89	5	4	48	56.1	28450	1476	5.4	19.6	4.29	0.9	1.1	275.87	114
1485	510688	5303792	42.06	0.46	3	<3	14	36.4	2011	37	0.8	15.9	8.27	0.4	0.6	115.18	19
1486	510565	5303397	73.55	0.25	2	<3	11	43.4	2909	85	3.1	12.4	1.25	<0.3	0.4	64.53	126
1487	510120	5302911	49.42	0.22	1	<3	26	25.5	6420	148	1.4	16.4	3.17	<0.3	0.6	98.76	63
1488	510067	5302630	36.63	0.06	<1	<3	15	17.6	1856	36	0.8	13.7	2.01	<0.3	0.6	58.11	26
1491	508243	5302527	86.08	0.21	3	<4	20	11.1	1521	47	0.8	14.8	2.05	<0.4	<0.4	16.69	87
1492	507998	5301481	28.49	0.28	<1	<3	69	26.7	10171	137	1.3	28.7	2.72	0.7	1.1	83.78	53
1493	506905	5301431	26.28	<0.05	<1	<3	16	6.2	2500	40	0.4	7.2	3.19	<0.3	0.4	12.98	48
1494	506389	5300967	79.93	<0.05	<1	<5	10	13.8	6812	68	3.8	10.4	1.83	2.4	2.2	11.31	74
1495	505613	5300808	31.32	<0.05	3	<3	32	28.1	7290	137	1.0	24.8	7.91	0.6	0.7	74.78	56
1496	505484	5301896	35.52	<0.05	1	4	26	33.0	4858	84	1.3	21.1	5.82	0.7	1.1	113.05	43
1497	504143	5300789	45.18	<0.05	<1	<3	20	40.9	2059	48	0.7	24.0	5.71	0.7	0.9	138.54	25
1498	503666	5301359	42.90	<0.05	1	<3	14	54.0	742	21	1.6	25.2	3.04	0.4	0.6	103.75	29
1499	504257	5302229	53.30	<0.05	8	<4	54	87.4	11499	163	2.2	44.0	2.99	1.2	0.8	329.87	73
1501	504429	5302715	52.13	<0.05	3	<3	29	53.2	5055	122	1.5	30.9	2.57	0.7	0.7	135.91	52
1502	501780	5304842	59.89	<0.05	<1	<3	18	42.5	2150	43	2.8	37.4	2.71	0.8	0.9	33.26	65
1503	501158	5304745	60.08	<0.05	9	3	47	53.8	6434	131	2.9	52.6	4.74	1.4	1.8	56.07	83
1504	499680	5304383	22.05	<0.05	<1	<3	74	35.3	20464	974	1.8	65.9	4.88	1.2	1.5	74.99	67
1505	499001	5304366	27.09	<0.05	<1	<3	59	30.6	160160	6766	1.7	82.8	3.78	1.4	1.7	56.26	96
1506	499677	5303780	30.58	<0.05	3	<3	144	32.4	16721	341	0.9	210.8	5.33	1.3	1.2	60.68	65
1507	499145	5303832	26.08	<0.05	2	<3	153	27.3	20575	319	0.5	173.0	4.71	0.7	0.8	63.09	62
1508	498476	5304594	69.03	<0.05	1	<9	21	24.6	4303	257	2.4	16.8	1.70	<0.9	<0.9	28.78	61
1509	498179	5304960	64.54	<0.05	<1	<3	19	36.6	5725	136	3.1	21.6	1.54	0.9	0.5	23.19	48
1511	497478	5304446	22.10	<0.05	3	<3	55	24.8	12820	513	0.6	28.1	4.84	0.4	0.7	55.89	64
1512	496558	5303983	62.16	0.07	<1	<3	26	28.2	7468	397	1.4	22.2	4.22	0.4	0.7	36.3	53
1513	496527	5303344	11.00	<0.05	<1	<3	43	20.4	18569	475	0.6	27.1	2.69	<0.3	0.4	59.92	41
1515	495732	5301164	60.26	0.28	<1	<3	34	53.3	7144	255	1.6	25.0	4.33	0.5	0.7	86.03	119
1516	496351	5300287	76.35	0.09	<1	<3	13	22.3	1110	49	2.2	15.1	3.98	<0.3	0.3	18.58	75
1517	496873	5300435	42.28	0.22	3	8	61	42.4	8226	294	1.0	51.5	8.71	1.1	1.2	84.43	96
1518	496590	5299493	43.93	0.34	1	<3	45	56.5	6152	269	1.0	43.0	14.34	1.3	1.4	112.99	93
1519	493973	5300643	60.61	0.69	5	4	28	101.9	15574	174	1.9	34.8	3.48	1.1	0.9	122.76	168
1521	493357	5300288	55.11	3.78	<1	4	23	34.1	8988	221	1.4	19.0	2.38	0.5	0.6	29.59	102
1523	492960	5300059	14.95	2.95	2	<3	41	12.2	10716	189	0.3	21.2	4.36	<0.3	0.8	45.59	44
1524	491590	5299749	36.39	0.75	<1	<3	46	37.1	20034	456	1.8	54.8	3.77	0.4	0.9	61.28	69
1525	491340	5298189	51.83	0.36	2	<3	38	31.3	78452	641	3.0	24.8	2.86	1.1	1.0	46.84	94
1526	491234	5298478	20.21	<0.05	17	<3	25	12.4	9195	118	1.2	18.1	1.88	<0.3	<0.3	32.02	36
1527	492242	5293851	36.38	0.05	1	<3	35	80.0	3865	111	1.4	27.8	1.99	1.3	1.0	122.45	55
1528	493829	5292287	51.21	<0.05	<1	<3	15	34.3	1862	57	2.2	27.0	1.71	0.7	0.8	30.62	74
1529	493129	5291804	37.60	<0.05	2	<3	32	22.5	8448	204	0.6	23.6	2.45	0.7	0.9	56.89	49
1531	494124	5291231	62.22	0.05	1	<3	34	38.9	28760	1558	1.9	23.2	4.34	0.5	0.9	79.06	108
1532	493683	5291434	40.91	<0.05	<1	<3	27	38.1	2845	79	1.6	29.1	2.69	0.6	0.7	52.86	58
1534	492174	5290912	50.67	<0.05	<1	<3	28	33.6	4683	111	0.7	21.1	5.76	0.4	1.0	28.68	111
1535	494181	5289423	29.96	<0.05	3	<3	44	44.5	8708	143	1.4	27.8	5.32	0.9	0.9	136.97	57
1536	493718	5287612	24.65	0.05	3	<3	58	42.5	11783	221	0.8	26.5	3.72	1.4	1.0	109.27	58
1537	493878	5286920	40.05	<0.05	<1	<3	39	50.0	9515	321	2.4	26.6	5.38	1.3	1.1	85.82	89
1538	493020	5285546	51.51	<0.05	<1	<3	23	35.6	4515	195	1.7	19.5	4.38	0.8	1.1	45.49	40
1539	493654	5285392	50.80	<0.05	4	<3	42	34.1	6457	216	1.8	26.0	3.61	0.6	0.9	82.35	64
1541	493321	5284468	57.90	<0.05	<1	<3	22	49.0	5365	79	1.6	23.4	9.12	0.4	0.7	69.28	61
1542	493530	5283461	60.65	<0.05	<1	<3	21	20.0	2813	47	0.6	14.4	7.56	0.4	0.7	42.88	23

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27 Zone 17	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
		Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
1543	493332	5282655	63.64	<0.05	<1	<3	17	45.2	4678	68	2.5	19.1	2.38	<0.3	0.5	29.52	72
1544	492090	5282121	55.82	<0.05	<1	<3	24	51.6	5651	168	2.0	19.3	4.27	<0.3	0.5	57.83	53
1545	491013	5281359	36.14	0.13	2	<3	80	48.2	24593	728	1.1	38.5	4.16	1.0	0.9	115.99	93
1546	489825	5279869	47.49	0.16	2	<3	41	53.4	9424	709	1.9	26.1	3.13	0.5	0.6	76.6	91
1547	489335	5277006	74.25	<0.05	<1	<3	11	33.1	1505	109	1.7	9.6	0.83	<0.3	0.4	20.21	50
1549	487361	5273406	60.24	<0.05	2	<5	31	24.4	3688	253	1.3	21.2	2.60	<0.5	<0.5	21.57	141
1551	486186	5272913	70.38	<0.05	<1	<8	12	49.9	1537	46	1.6	16.2	1.22	<0.8	<0.8	22.62	57
1552	484305	5271078	45.79	<0.05	N/A	N/A	42	39.7	1289	66	3.1	42.4	1.01	N/A	N/A	41.07	22
1553	507091	5309687	52.75	<0.05	<1	<3	115	163.9	3642	58	4.7	109.0	7.56	0.3	0.7	379.84	87
1554	506592	5309775	39.23	0.08	3	<3	43	49.7	5357	161	1.6	22.8	3.03	<0.3	0.4	165.94	64
1555	505492	5309825	69.60	<0.05	2	<3	13	15.9	2764	43	0.9	13.8	3.84	<0.3	0.4	39.45	16
1556	504113	5308277	32.19	<0.05	3	<3	27	41.6	3359	31	1.3	22.5	2.97	0.6	1.0	143.26	45
1557	501310	5310610	56.02	0.39	2	5	31	85.0	3643	41	4.5	18.4	5.27	1.3	1.3	174.3	77
1558	500590	5309050	39.24	0.12	1	<3	17	69.3	2051	26	0.6	18.7	2.69	0.4	0.6	244.83	18
1559	500779	5308219	62.32	0.06	<1	<3	15	47.8	1613	56	2.2	34.6	2.77	0.5	0.8	94.6	67
1561	500857	5307563	49.58	0.16	<1	2	44	61.4	8105	177	3.9	52.7	7.23	1.2	1.1	97.32	98
1562	500177	5305894	7.67	0.10	6	3	61	29.0	13981	222	1.0	41.0	4.93	0.9	1.3	74.67	41
1563	499481	5306503	48.95	0.12	<1	<3	46	45.9	14582	666	3.0	37.8	6.19	1.1	1.6	76.71	100
1564	500741	5305445	38.10	<0.05	<1	5	49	37.4	11317	404	2.4	37.7	5.75	0.9	1.4	68.06	79
1565	498771	5306865	48.69	<0.05	4	<3	42	41.6	10132	276	2.6	37.6	4.81	0.8	1.4	66.53	80
1566	498609	5307381	77.31	<0.05	<1	N/A	13	76.5	6325	170	2.0	22.4	2.72	N/A	N/A	28.56	152
1567	498499	5306196	49.85	<0.05	<1	3	44	86.9	11558	1844	1.6	37.8	3.08	2.3	1.9	63.45	97
1568	499228	5305542	66.51	2.88	<1	<3	35	47.0	6947	369	1.0	38.8	8.40	0.9	1.0	43.97	150
1569	497068	5305926	56.41	2.63	3	<3	35	35.1	7001	191	0.8	48.3	6.74	0.9	1.0	30.33	84
1572	490518	5299587	37.30	0.38	9	<3	42	32.0	8711	96	1.4	40.6	3.14	0.4	0.5	51.77	49
1573	487112	5295384	81.94	<0.05	<1	<3	14	41.5	9962	805	9.7	40.0	1.33	2.6	2.0	35.47	13
1574	487635	5291927	39.29	<0.05	<1	<3	21	16.8	2832	101	0.5	15.7	7.17	<0.3	0.5	31.7	55
1575	487707	5290566	83.48	<0.05	<1	<3	6	11.1	1115	39	0.7	8.5	0.95	<0.3	<0.3	9.83	27
1576	488575	5288540	25.54	<0.05	<1	<3	35	27.2	5849	80	1.0	19.5	2.81	0.5	0.5	56.68	36
1577	487803	5284853	59.34	<0.05	<1	<3	18	25.1	3885	106	2.4	22.4	1.52	0.4	0.3	38.79	66
1578	487963	5283378	57.97	<0.05	<1	3	33	69.7	2462	49	2.3	33.3	2.76	0.6	0.5	90.43	66
1579	488109	5280523	59.60	<0.05	<1	<3	20	27.7	3376	133	1.8	19.2	2.89	0.3	0.7	28.92	73
1581	487367	5278635	45.14	<0.05	<1	<3	33	35.1	3314	75	1.0	59.7	2.82	0.4	0.7	35.43	87
1582	486489	5273664	23.77	<0.05	4	3	89	27.3	53014	1929	1.4	49.4	3.00	0.8	1.4	89.2	281
1583	483582	5281596	52.15	<0.05	3	<3	36	45.2	5040	72	1.2	67.3	4.64	0.5	0.7	44.09	96
1584	482593	5282686	46.61	<0.05	<1	<3	75	43.2	9563	438	0.7	76.3	13.63	1.1	1.6	46.48	157
1585	482809	5284074	51.26	<0.05	10	<3	165	83.3	14160	424	1.7	275.6	3.91	4.0	4.6	36.18	327
1586	482344	5287539	20.75	0.06	<1	<3	22	15.5	4510	60	0.2	13.9	2.74	<0.3	0.3	31.51	33
1587	482534	5287816	53.28	<0.05	<1	<3	21	26.0	5677	54	1.3	28.1	1.72	0.6	0.7	20.07	93
1588	484762	5297670	49.35	<0.05	<1	<3	27	7.4	9614	500	0.7	11.8	6.14	<0.3	0.6	33.9	41
1589	484356	5298158	70.28	<0.05	<1	<3	18	29.0	6884	61	2.1	8.7	0.93	0.3	0.8	10.67	28
1591	483531	5298045	53.75	0.71	<1	<3	15	9.4	12653	144	3.4	9.5	2.85	<0.3	0.5	28.4	56
1592	484867	5299910	80.86	<0.05	<1	<5	14	8.1	16981	163	2.3	8.5	2.82	<0.5	<0.5	14.99	115
1593	486315	5302950	89.91	<0.05	<1	<3	9	7.4	1129	57	0.7	6.6	6.89	<0.3	0.4	7.16	50
1594	487956	5306069	14.70	<0.05	<1	<3	46	11.4	11510	146	0.3	28.4	4.80	0.4	1.1	49.09	51
1595	488142	5308339	21.53	<0.05	<1	<3	61	26.8	17073	417	0.6	36.8	5.07	<0.3	0.5	77.08	70
1596	488136	5310026	46.42	<0.05	<1	<3	26	35.4	6196	106	1.3	22.9	2.19	<0.3	0.5	31.05	85
1597	490433	5310639	54.68	<0.05	<1	<3	41	43.4	14027	625	1.7	34.2	3.41	0.5	0.9	64.53	112
1598	490510	5312002	54.81	<0.05	4	<3	39	29.3	6184	58	2.3	37.4	1.87	1.2	0.9	23.69	53
1599	491516	5312128	59.28	<0.05	<1	<3	20	39.0	5936	142	1.5	21.2	2.15	<0.3	<0.3	34.47	60
1601	490907	5312912	42.20	<0.05	<1	<3	37	16.0	6539	160	1.0	20.8	4.61	0.4	1.0	29.72	60
1602	490131	5314037	26.64	0.12	<1	<3	46	17.4	10447	363	0.9	27.3	4.27	0.3	0.8	58.13	56
1603	491259	5314562	59.93	<0.05	<1	<3	49	16.7	9370	238	1.2	27.9	2.35	1.5	1.8	44.06	67
1604	491653	5314090	18.50	0.05	<1	<3	59	17.6	14080	343	0.5	33.1	4.24	0.4	1.0	74.2	62
1605	492486	5313940	41.62	<0.05	<1	<3	42	15.8	8826	155	0.9	34.4	3.63	<0.3	0.6	44.56	57
1606	492289	5314462	43.46	<0.05	<1	4	32	11.3	7250	158	1.1	21.7	3.25	0.3	0.7	33.98	41
1607	492144	5314714	53.78	0.47	3	<3	30	53.3	6137	78	0.9	20.4	15.11	<0.3	0.8	115.88	56
1608	491443	5315901	62.49	<0.05	<1	14	<1	<0.5	10420	164	<0.1	<0.5	<0.05	0.7	0.8	0.3	58
1609	492328	5315242	38.79	<0.05	1	<3	64	19.1	15444	307	1.0	35.3	3.90	<0.3	0.6	58.3	74
1611	492850	5314996	65.84	3.30	<1	<3	57	25.3	8531	150	3.1	22.0	2.31	1.9	0.4	78.27	91
1613	493079	5315787	41.98	1.52	<1	<3	59	16.9	41001	556	1.1	29.5	3.71	<0.3	0.5	55.56	82
1614	493615	5315628	76.85	0.26	2	<5	20	11.2	6232	74	1.2	11.4	1.52	<0.5	<0.5	17.16	75
1615	494246	5315825	43.97	0.06	<1	<3	46	18.4	6147	81	1.8	21.2	1.55	1.1	1.0	30.51	44
1616	495609	5315891	63.22	0.11	<1	<3	103	26.9	4602	28	3.2	39.4	2.18	8.5	0.7	24.72	59

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27 Zone 17	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
		Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
1617	496767	5316211	62.01	0.16	<1	<4	32	11.6	3305	67	0.8	19.0	2.64	<0.4	<0.4	24.42	95
1618	497082	5316035	42.83	0.34	8	<3	108	45.6	13420	180	1.6	49.0	3.02	2.6	1.6	173.77	58
1619	498405	5315957	42.55	0.27	1	<3	26	27.8	5503	148	1.1	18.0	3.94	<0.3	0.6	105.6	62
1621	497961	5315920	59.38	<0.05	1	<3	34	31.5	1939	66	0.8	51.6	2.04	0.4	0.6	134.42	75
1622	497194	5315487	41.48	<0.05	3	<3	79	29.7	10321	578	1.6	35.4	6.76	2.1	1.5	150.42	68
1623	496945	5314959	39.90	<0.05	7	<3	105	34.4	27501	366	1.2	37.0	4.41	4.9	1.7	144.49	67
1624	496570	5314579	35.10	<0.05	<1	<3	103	31.9	18346	412	0.9	40.0	3.36	4.0	1.5	91.25	61
1626	495507	5312820	1.91	<0.05	1	<3	50	17.1	11927	409	0.9	37.8	2.74	<0.3	0.6	58.47	26
1627	494464	5313199	24.71	<0.05	<1	<3	78	28.7	18321	500	0.7	39.5	4.65	0.7	1.1	101.21	102
1628	494843	5311456	6.04	<0.05	2	<3	39	17.3	10939	209	0.5	30.0	2.69	0.5	0.8	59.1	32
1629	494059	5311461	56.37	<0.05	<1	<3	29	38.6	6622	182	1.3	23.6	2.19	0.7	1.2	30.98	73
1631	493448	5311934	78.23	<0.05	<1	<8	7	18.0	1329	50	2.4	21.2	0.82	<0.8	<0.8	7.52	50
1632	492703	5311969	79.20	<0.05	3	<15	12	24.3	3235	66	0.8	10.9	1.50	<2	<2	14.79	55
1633	492854	5310779	60.13	1.86	<1	<3	26	23.1	3828	80	1.8	26.2	2.40	0.8	1.0	28.27	57
1634	494283	5310831	28.92	1.44	1	<3	72	34.0	15958	358	0.8	43.5	4.55	0.8	1.1	71.02	85
1636	496195	5310740	39.63	0.53	<1	<3	56	46.3	11988	400	1.8	42.0	3.40	1.9	1.9	62.03	77
1637	495860	5311947	72.56	<0.05	2	<11	16	84.5	6641	151	2.9	55.6	0.93	<1	<1	27.21	113
1638	496126	5312145	81.35	<0.05	<1	N/A	9	23.2	1297	91	1.4	14.6	2.46	N/A	N/A	9.18	54
1639	497357	5312113	43.76	<0.05	<1	<3	31	28.2	6840	74	0.8	30.6	3.18	0.5	0.9	56.5	71
1641	497801	5309172	8.03	<0.05	<1	<3	<1	13.8	3730	972	<0.1	52.5	0.76	0.8	0.6	15.45	15
1642	497182	5309589	29.21	<0.05	1	<3	80	40.7	19602	391	0.9	50.6	5.31	1.0	0.9	78.83	78
1643	496342	5309646	76.22	<0.05	<1	<3	15	20.6	4178	149	1.5	26.6	1.53	0.9	0.7	15.3	54
1644	496157	5309096	47.18	<0.05	2	3	34	55.6	5550	197	1.9	34.4	2.35	1.9	1.3	43.88	64
1646	493823	5309027	20.39	<0.05	8	<3	82	33.8	27645	785	1.1	52.1	4.18	0.8	1.1	101.94	91
1647	493801	5308280	38.78	<0.05	2	<3	68	40.9	17370	800	0.9	36.1	3.37	1.8	1.4	108.84	119
1648	492948	5305319	40.02	<0.05	3	N/A	199	111.4	12032	493	3.3	127.2	10.38	N/A	N/A	220.05	74
1649	493082	5306126	9.20	<0.05	<1	N/A	224	105.5	15245	299	2.4	154.2	11.96	N/A	N/A	230.7	34
1651	486192	5265208	26.09	0.50	<1	<3	48	28.3	23294	463	0.9	25.8	4.41	0.6	0.7	84.04	104
1652	486357	5264245	46.73	0.31	3	<3	54	48.8	12612	566	1.3	27.1	6.45	1.1	1.3	106.9	114
1653	486743	5263304	29.71	<0.05	1	<3	29	29.5	5174	78	0.8	21.7	1.84	0.7	0.8	63.74	63
1654	487932	5260877	77.66	<0.05	<1	<3	21	24.9	3845	120	2.4	14.1	7.17	0.6	0.5	14.06	267
1655	488397	5260394	6.91	<0.05	1	<3	<1	5.2	802	68	<0.1	50.7	0.30	0.3	0.3	5.15	7
1656	487888	5260027	33.88	<0.05	<1	2	35	12.0	4914	104	0.8	20.5	3.78	0.4	0.4	22.68	114
1657	487185	5260186	54.46	<0.05	<1	<3	23	9.3	2559	58	0.6	14.7	3.02	<0.3	0.4	19.28	93
1658	488257	5257052	28.20	2.84	<1	7	108	24.8	6617	69	1.8	26.5	4.52	1.6	0.7	39.72	50
1659	488275	5256395	53.97	2.08	3	<4	67	30.3	7933	104	3.3	22.7	37.37	1.4	0.7	35.17	63
1663	487188	5251867	47.37	0.62	<1	<3	57	16.1	164720	1262	1.1	12.5	2.35	0.8	0.8	153.28	127
1664	487339	5251210	22.95	<0.05	1	<3	33	9.4	19377	609	0.5	15.5	5.68	0.4	0.7	60.5	80
1665	488564	5250914	88.33	<0.05	<1	<3	18	13.7	2008	83	1.3	10.8	3.28	<0.3	0.4	22.62	97
1666	487803	5248315	21.69	<0.05	<1	<3	63	14.2	78764	361	1.2	14.0	1.84	0.8	0.7	125.3	102
1667	487231	5248644	50.68	<0.05	<1	<3	89	22.0	55139	284	1.5	20.2	3.71	<0.3	0.4	196.86	136
1668	486812	5247616	75.32	<0.05	<1	<3	27	18.2	54889	705	4.2	13.8	1.94	0.4	0.4	40.17	282
1669	487598	5247561	57.18	<0.05	3	<3	61	31.2	38431	653	1.1	18.6	4.35	1.0	0.9	155.9	105
1671	487964	5247733	53.66	<0.05	<1	<3	49	21.3	10434	94	1.2	15.8	2.96	0.7	0.6	70.68	57
1673	485672	5246943	63.28	<0.05	<1	N/A	22	16.9	11665	105	2.5	9.5	4.06	N/A	N/A	25.47	73
1674	487121	5245210	20.01	<0.05	5	<3	29	34.3	7870	120	0.8	16.9	4.29	0.3	0.6	77.9	45
1675	487549	5245302	11.81	<0.05	5	<3	30	35.4	10963	142	0.7	18.0	2.92	<0.3	<0.3	76.46	42
1676	488540	5245585	46.54	<0.05	3	<3	33	47.8	4825	85	2.4	22.4	2.61	0.8	0.9	87.21	67
1677	488629	5244915	63.68	<0.05	<1	<3	15	71.8	7211	115	3.7	17.6	2.60	0.4	1.3	64.94	94
1678	488847	5244787	57.10	<0.05	2	<3	31	63.6	4533	136	2.3	27.3	3.16	1.5	1.5	74.31	110
1679	487944	5244172	19.67	<0.05	2	<3	36	66.8	13071	162	1.7	22.1	3.19	1.2	1.1	116.23	57
1682	487795	5241301	70.67	<0.05	<1	<3	10	50.3	1422	66	2.8	10.6	5.29	1.1	0.7	12.76	73
1683	487484	5241553	61.51	<0.05	4	<3	18	92.8	1769	63	2.2	19.9	3.26	1.6	2.0	36.04	74
1684	486559	5242325	42.52	<0.05	<1	<3	21	30.5	8865	499	1.5	14.8	4.06	1.0	2.8	41	68
1685	486077	5243403	57.60	<0.05	<1	<3	30	27.8	4593	121	1.0	17.1	3.59	<0.3	0.5	48.72	98
1686	485593	5242847	40.68	0.06	<1	2	59	20.5	170163	3269	1.3	12.5	2.11	0.8	0.7	173.52	72
1687	485251	5243668	27.51	<0.05	<1	<3	15	6.7	2325	58	0.5	6.4	4.60	<0.3	0.5	20.67	19
1692	483463	5241481	21.05	<0.05	1	<3	18	131.9	4435	69	7.2	13.7	4.68	<0.3	0.6	36.71	35
1693	483716	5241927	37.54	<0.05	6	<3	17	115.9	2961	37	1.9	14.4	4.89	<0.3	0.7	49.55	26
1694	482274	5242003	46.65	3.48	<1	<3	21	38.5	5711	80	2.2	17.1	3.05	<0.3	0.6	49.25	62
1695	481633	5242482	44.06	0.60	<1	<3	28	66.9	6218	133	3.7	21.4	2.73	0.7	1.0	59.02	63
1696	480140	5241438	38.44	0.09	2	<3	16	45.5	4197	122	4.5	15.2	8.76	<0.3	0.6	32.58	54
1697	480329	5242222	58.33	<0.05	2	<3	15	66.3	3893	88	11.9	17.9	2.40	<0.3	0.4	34.57	97
1698	480099	5242634	43.66	<0.05	<1	<3	17	25.8	6214	104	2.4	15.2	2.75	<0.3	0.4	37.71	70

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27 Zone 17	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
		Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
1699	480991	5243663	33.84	<0.05	5	<3	17	33.6	4319	87	1.7	14.5	4.38	<0.3	0.5	37.03	46
1701	480501	5244098	27.05	<0.05	<1	<3	20	21.0	7244	134	3.0	14.4	2.62	<0.3	0.5	31.55	60
1702	480316	5244722	19.64	<0.05	1	<3	27	28.0	8704	132	5.8	16.8	2.45	<0.3	0.6	40.77	63
1703	480606	5245852	10.65	<0.05	<1	<3	29	26.2	11428	133	0.7	17.2	2.48	<0.3	0.4	53	43
1704	482935	5245944	63.23	<0.05	5	<3	50	26.4	14959	148	8.4	18.8	3.76	0.7	0.8	79.42	65
1705	483420	5246283	59.53	<0.05	<1	<3	12	11.0	7031	150	2.2	11.1	3.47	<0.3	0.8	18.38	54
1706	483844	5245314	80.65	<0.05	<1	<3	21	11.0	5290	72	3.0	9.0	1.39	<0.3	0.5	25.58	79
1707	484186	5245640	42.09	<0.05	<1	<3	11	10.0	2641	60	2.9	10.1	4.49	<0.3	<0.3	14.04	43
1708	484298	5246908	43.20	<0.05	<1	<3	48	22.3	24863	1116	3.2	20.3	6.40	1.8	2.8	81.82	100
1709	483713	5248043	83.79	<0.05	<1	<3	15	11.8	1356	54	0.8	8.5	3.52	<0.3	0.3	19.45	160
1711	484259	5248710	74.19	<0.05	<1	<3	14	9.4	1399	37	1.4	8.0	6.23	<0.3	0.3	17.35	17
1712	485075	5248515	31.66	<0.05	2	<3	15	5.8	2094	32	0.4	6.1	3.47	<0.3	0.5	25.84	21
1713	487046	5250292	51.11	<0.05	5	<3	66	15.9	163292	2738	1.4	11.2	2.59	0.3	0.8	219.14	104
1715	487955	5255457	53.84	5.80	15	8	325	397.2	73152	233	8.4	58.1	20.32	9.7	4.3	603.5	35
1716	487201	5258308	35.85	2.11	<1	5	58	24.8	11809	486	1.0	23.9	3.52	1.8	1.5	85.4	80
1717	486100	5260592	69.88	1.08	<1	<3	14	21.7	1554	54	2.8	23.8	9.27	0.4	0.4	31.2	80
1718	484132	5265611	57.93	0.62	<1	<3	24	59.2	4493	168	2.3	27.7	2.43	0.7	0.8	31.83	87
1719	487300	5279158	63.93	0.44	<1	<3	30	25.2	4033	123	1.6	19.8	2.92	0.7	0.6	24.23	143
1721	486912	5279438	72.22	<0.05	<1	<3	13	23.1	2644	197	1.2	17.7	1.91	0.6	0.6	15.98	104
1722	486409	5280898	66.20	<0.05	<1	<3	40	52.6	5540	120	4.4	38.5	2.25	1.9	1.4	29.29	57
1723	487015	5284500	40.72	<0.05	1	<3	48	35.4	8346	280	0.9	24.6	3.50	0.8	1.1	81.25	68
1724	486575	5285059	15.65	<0.05	1	<3	18	42.4	7716	491	2.7	45.5	1.02	1.6	1.6	30.09	26
1725	487882	5289257	58.09	<0.05	<1	<3	20	55.0	9487	92	2.2	20.7	3.29	0.4	0.6	73.59	115
1726	489151	5291100	41.28	4.82	3	<3	37	78.4	5006	58	1.4	71.7	2.69	1.1	0.9	99.72	61
1728	492528	5297494	62.83	3.98	<1	<3	21	31.7	2649	146	1.7	20.1	1.89	<0.3	0.6	60.66	55
1729	492465	5297720	64.88	1.90	<1	<3	23	35.6	3784	273	1.9	19.8	3.28	0.5	0.7	49.06	110
1731	492204	5298272	58.80	0.98	<1	<3	35	30.8	18618	333	4.2	16.3	2.28	2.3	1.7	30.75	42
1732	495740	5300627	44.43	0.75	<1	<3	41	30.0	9504	387	1.4	33.6	3.67	0.9	1.0	51.37	62
1733	496710	5301433	54.49	0.48	3	<3	48	51.4	2878	80	2.1	88.7	2.24	0.6	0.8	48.23	80
1734	497911	5302139	56.37	<0.05	<1	<3	140	55.9	9176	233	1.1	176.4	6.33	0.7	0.8	72.83	124
1735	498469	5300826	40.78	<0.05	4	<3	90	43.1	10331	547	1.2	86.8	5.71	0.6	1.0	88.63	101
1736	499032	5299261	23.41	0.15	<1	<3	98	38.7	15722	420	1.1	89.5	9.43	0.6	1.0	143.09	89
1738	501128	5301931	19.95	<0.05	7	<3	99	31.4	14745	270	0.8	106.9	5.60	1.2	1.4	132.53	71
1739	500378	5302523	30.89	<0.05	5	<3	181	54.7	15559	763	1.5	155.7	7.69	0.9	0.9	159.64	95
1741	499549	5302471	16.22	<0.05	1	<3	141	27.3	15393	577	1.0	200.8	4.88	0.9	1.2	117.59	73
1742	499464	5303293	36.11	<0.05	<1	<3	106	34.2	13746	804	1.2	172.5	4.64	0.9	1.0	61.36	65
1743	498356	5302772	29.15	<0.05	2	<3	227	78.4	20428	362	2.6	224.2	9.86	0.9	0.9	178.16	130
1744	498011	5303452	36.08	<0.05	<1	<3	106	48.5	7108	100	1.4	149.5	3.97	0.9	0.7	109.78	61
1745	498312	5303799	46.66	<0.05	<1	N/A	129	52.3	8066	72	2.2	152.1	3.72	N/A	N/A	107.75	69
1746	498081	5304275	82.26	<0.05	<1	4	7	25.0	1604	54	2.7	17.6	1.09	2.5	1.8	8.86	80
1747	497953	5305784	58.76	<0.05	5	3	40	70.8	21516	572	1.0	47.3	3.35	2.1	1.7	30.63	91
1748	498230	5306572	68.38	0.11	2	<3	41	56.7	9078	913	1.6	31.6	4.58	1.3	1.3	32.1	53
1749	497961	5307541	48.71	5.65	3	N/A	24	50.7	75565	5688	2.1	23.3	2.19	N/A	N/A	44.02	131
1751	497278	5307029	62.67	0.21	4	<14	47	46.2	11726	1319	1.4	29.5	2.99	<1	<1	44.97	129
1752	497345	5307674	69.06	<0.05	<1	<3	15	51.5	1515	60	2.4	36.7	1.05	1.7	1.3	18.58	66
1753	497094	5307852	57.59	<0.05	<1	<5	17	71.6	8000	318	2.2	27.9	1.52	5.3	2.1	28.94	116
1754	495997	5308016	69.07	<0.05	<1	<3	20	69.1	7092	198	2.1	34.9	1.59	2.9	1.7	39.87	53
1755	495903	5308310	46.62	<0.05	<1	<3	31	77.3	4766	85	2.2	48.1	2.21	0.9	1.1	52.35	58
1756	494536	5307803	55.28	<0.05	<1	<8	46	39.3	33504	1142	1.8	26.1	2.58	<0.8	<0.8	114.64	73
1757	494271	5307911	51.22	<0.05	2	3	49	38.8	9532	357	1.5	29.9	2.99	0.9	1.1	84.1	84
1758	494188	5308370	47.07	<0.05	<1	<6	49	32.5	12985	566	1.0	27.0	3.04	0.9	0.7	71.06	86
1759	493487	5307491	62.26	<0.05	3	<3	55	56.7	10827	339	2.0	60.3	2.38	1.5	1.5	74.53	111
1761	493884	5307295	56.34	<0.05	<1	<4	55	47.1	39520	1460	1.1	39.0	5.42	1.5	1.1	95.73	85
1762	493826	5306889	67.78	<0.05	<1	N/A	74	28.0	6464	110	1.5	74.0	2.01	N/A	N/A	44.66	99
1763	494396	5306578	67.35	<0.05	2	<3	40	28.9	6320	152	1.3	54.0	3.34	1.8	1.6	36.18	63
1764	494312	5307201	63.30	<0.05	3	3	58	51.1	17172	224	1.4	51.0	2.61	1.2	0.8	103.5	73
1765	494750	5307243	69.20	<0.05	<1	3	41	49.9	6208	227	1.9	65.4	1.97	2.0	2.0	93	70
1766	495385	5307218	63.72	<0.05	5	<6	49	68.8	13282	436	1.6	49.1	2.57	1.8	1.1	96.49	81
1767	495726	5307396	59.33	<0.05	6	<3	32	76.8	13457	164	1.3	56.0	1.26	4.4	1.8	81.95	78
1768	496194	5306761	50.17	0.80	<1	3	52	62.8	12324	553	1.5	38.5	2.89	3.0	2.5	68.2	88
1769	495673	5306207	59.94	0.51	7	<3	73	69.5	26309	1182	1.6	69.2	4.62	2.1	1.5	131.16	92
1772	495391	5305493	45.49	10.93	3	<3	54	39.4	158998	30210	2.7	34.1	2.28	2.5	1.7	94.54	114
1773	494858	5305741	37.24	8.35	1	<3	56	50.9	13145	213	1.5	48.0	3.33	1.4	1.2	64.76	61
1774	493928	5305293	49.25	5.52	3	<3	40	37.9	13662	310	1.3	35.2	3.18	0.8	1.1	47.9	82

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27 Zone 17	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
		Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
1775	493714	5305797	41.72	2.24	3	N/A	46	27.0	13303	670	1.4	31.1	4.88	N/A	N/A	58.23	98
1776	493078	5304382	53.95	0.49	2	<3	26	15.3	5285	126	0.9	26.9	4.34	0.6	0.8	32.25	50
1777	493747	5304576	31.05	0.52	1	<3	52	26.9	10838	296	0.6	32.7	3.90	1.1	1.3	57.19	78
1778	495083	5304567	62.43	0.30	<1	4	37	32.1	10842	515	1.1	33.8	3.74	0.6	1.0	50.07	94
1779	494910	5303858	69.65	0.88	<1	<6	21	28.9	11124	262	1.4	18.7	2.15	<0.6	<0.6	40.11	58
1781	494568	5303882	66.32	0.54	3	<6	20	41.4	15858	495	1.6	26.1	3.27	<0.6	<0.6	37.92	99
1783	492845	5303153	61.41	0.31	4	<3	35	55.2	8374	192	2.6	37.1	3.85	0.6	0.8	33.46	135
1784	492317	5303512	62.94	<0.05	<1	<3	29	26.8	6591	265	1.3	20.1	4.42	0.5	0.8	44.54	96
1785	491548	5303388	55.38	<0.05	<1	N/A	9	10.8	1854	42	1.4	18.8	2.78	N/A	N/A	8	38
1786	491169	5303470	43.39	<0.05	2	<3	26	21.5	6598	214	1.1	22.1	3.24	<0.3	0.7	32.19	90
1787	491709	5304154	36.95	<0.05	<1	<3	16	37.1	2496	147	3.1	30.4	1.16	0.9	0.9	18.78	94
1788	491537	5306350	71.74	<0.05	2	5	51	34.6	8362	423	1.2	31.1	2.83	1.4	1.2	77.8	73
1789	490789	5305949	42.91	<0.05	2	<3	36	21.9	8924	172	1.4	29.5	2.47	0.5	0.9	41.87	78
1791	490247	5306408	45.21	0.05	2	<3	57	71.2	12008	130	1.9	65.6	5.65	1.5	1.2	59.85	80
1792	489846	5307062	61.80	<0.05	<2	N/A	29	13.8	5710	86	1.0	31.4	11.08	N/A	N/A	17.96	64
1793	490045	5306076	21.48	<0.05	1	<3	19	6.9	3623	114	0.3	10.8	9.39	<0.3	0.5	15.95	32
1794	489991	5305454	71.87	2.56	1	<15	20	15.2	4192	100	2.5	70.1	1.53	<1	<1	13.24	108
1795	490266	5304900	62.02	3.65	<1	<3	22	21.0	6282	122	1.7	25.3	1.81	0.5	0.6	25.21	59
1796	489564	5304331	46.59	4.00	<1	<3	39	27.3	15524	267	1.9	78.4	3.01	1.5	1.4	39.48	94
1797	488422	5303159	20.69	2.34	<1	<3	43	20.9	44461	18120	1.1	39.5	4.27	0.7	1.0	65.1	69
1798	487855	5302456	31.30	0.17	2	<3	29	18.6	6698	168	1.2	26.3	2.42	<0.3	1.1	35.06	39
1799	488593	5302160	25.08	0.18	<1	6	41	20.8	10716	494	0.8	28.1	4.69	0.7	1.2	58.23	73
1801	488000	5301600	82.80	<0.05	<1	<4	8	9.4	7882	199	1.7	23.0	11.26	<0.4	0.4	12.63	27
1802	488645	5301198	46.67	<0.05	1	5	26	28.8	6793	119	1.8	30.6	2.37	0.5	0.9	30.47	69
1803	489387	5301087	54.56	<0.05	<1	<3	23	26.4	7927	105	2.2	27.7	1.77	0.6	0.5	24.8	78
1804	490888	5299635	34.20	<0.05	<1	<3	45	33.6	18468	224	3.9	37.2	3.80	0.8	1.2	61.58	91
1805	488879	5298603	70.15	0.28	1	<6	10	8.0	1429	48	1.8	9.3	0.92	<0.6	<0.6	11.19	42
1806	488929	5293202	15.77	<0.05	3	<3	12	17.5	1415	21	0.3	8.4	3.83	<0.3	0.3	61.37	14
1807	486810	5288966	68.04	<0.05	<1	<4	16	45.7	9870	233	1.9	21.6	3.11	<0.4	<0.4	60.25	93
1808	480975	5285776	64.46	<0.05	<1	<3	28	23.8	5149	89	0.7	37.9	2.12	0.7	1.1	28.42	80
1809	481096	5283623	66.62	<0.05	<1	<3	22	42.3	4378	102	0.9	19.9	1.55	0.6	0.8	32.96	98
1811	480653	5283197	46.95	0.34	<1	<3	12	36.4	2855	29	1.0	25.1	3.52	0.6	0.5	21.67	74
1812	479485	5284033	67.40	<0.05	<1	<6	9	29.6	1978	55	0.9	18.5	10.32	<0.6	<0.6	11.1	119
1813	478450	5282751	53.86	<0.05	<1	<3	12	19.3	3228	59	0.9	14.5	8.65	<0.3	0.5	12.8	97
1814	480667	5279153	60.14	<0.05	<1	<3	16	31.4	2566	67	1.0	24.9	2.35	0.4	0.7	24.82	48
1815	481471	5279083	60.26	2.72	1	<3	15	77.1	2509	45	1.6	29.0	1.65	0.9	0.9	29.03	123
1816	483595	5278140	66.51	2.97	3	<3	15	41.9	18021	321	1.2	20.4	1.25	0.6	0.6	32.52	123
1817	480602	5268957	70.72	1.81	<1	<4	33	32.5	2686	73	2.7	27.9	2.70	1.5	0.9	22.74	69
1818	486853	5280823	78.36	0.54	<1	<3	13	16.4	2166	127	1.2	12.8	2.10	0.3	<0.3	24.98	51
1819	486798	5281148	69.81	0.05	1	<3	16	22.1	4642	290	1.2	15.7	2.18	0.4	0.7	21.66	137
1821	487527	5281796	55.78	<0.05	<1	<3	22	41.6	5407	215	3.7	26.4	2.25	0.7	0.8	38.9	82
1822	489381	5286563	49.91	<0.05	3	<3	18	105.6	2092	76	1.5	32.9	2.40	0.6	0.7	54.56	51
1823	489371	5287680	47.78	0.35	2	<3	71	69.2	9970	631	1.3	40.8	6.91	1.9	1.6	143.31	107
1824	488950	5288192	43.40	<0.05	<1	<3	51	45.0	8652	208	1.5	43.9	3.59	1.2	1.2	105.19	69
1825	489198	5290600	50.46	0.24	1	<3	66	69.8	20111	391	2.4	45.5	4.28	1.6	1.4	179.82	115
1826	488175	5294103	91.54	<0.05	<1	<6	10	11.5	1692	294	0.7	10.2	12.94	<0.6	<0.6	9.68	66
1827	487178	5298916	82.74	<0.05	<1	<6	7	6.0	2582	65	2.6	7.0	1.16	<0.6	<0.6	7.58	75
1828	487127	5299486	49.79	<0.05	<1	<3	43	16.3	11798	375	1.3	23.9	3.86	0.7	1.0	46.75	94
1829	487127	5300041	52.04	<0.05	7	<3	41	18.2	12024	378	1.6	22.5	5.62	0.7	0.9	52.27	126
1831	488008	5299792	49.67	<0.05	4	<3	38	19.0	15769	327	1.3	22.6	17.41	1.0	1.1	47.34	59
1832	488454	5300363	49.44	<0.05	<1	<3	27	23.7	7381	204	1.6	23.8	7.30	0.6	0.7	35.02	69
1833	488603	5300735	86.52	<0.05	<2	<6	10	9.6	2910	98	1.2	6.8	4.56	<0.6	<0.6	9.68	53
1834	487354	5301559	45.12	<0.05	2	<3	23	25.2	25936	632	3.9	19.1	2.40	0.4	0.7	42.7	59
1835	486621	5301499	67.90	<0.05	2	<3	30	29.5	38642	52	9.4	22.9	2.69	1.7	0.8	31.88	100
1836	485224	5301520	67.86	0.13	<1	<6	11	7.4	3781	71	2.0	8.0	1.86	<0.6	<0.6	15.5	56
1837	485731	5301862	60.95	1.28	<1	<3	30	24.5	11538	169	1.5	21.6	5.33	<0.3	0.4	50.48	142
1838	486331	5301895	62.06	<0.05	<1	<3	37	20.2	15364	450	2.2	16.8	5.53	1.0	0.9	44.91	83
1839	486642	5302056	77.81	<0.05	<1	<3	9	11.7	8305	114	1.4	7.8	2.13	<0.3	0.4	10.94	122
1841	486316	5303866	80.59	<0.05	3	<5	14	10.4	1234	39	0.7	10.7	6.02	<0.5	<0.5	13.69	103
1842	487439	5302904	22.70	<0.05	<1	<3	47	27.3	19137	224	2.4	39.7	4.30	0.4	0.5	60.74	101
1843	487625	5303397	6.62	<0.05	<1	<3	47	13.1	13337	137	0.3	28.7	3.31	<0.3	0.6	49.02	56
1844	488666	5304724	67.18	<0.05	3	<6	21	62.1	20515	159	2.6	119.2	1.78	1.0	0.7	21.22	285
1845	488285	5303785	42.05	<0.05	<1	<3	45	22.1	11246	99	0.8	38.1	4.21	0.5	0.6	48.31	70
1846	488677	5305640	34.89	<0.05	<1	<3	26	12.2	6523	99	1.5	26.4	4.66	0.5	0.7	31.78	45

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27 Zone 17	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
		Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
1847	487798	5306769	80.20	<0.05	<1	<6	10	24.9	1961	13	1.8	24.9	1.79	<0.6	<0.6	13.34	74
1848	486800	5307020	56.85	<0.05	<1	<3	22	27.6	5623	176	1.8	16.0	2.98	<0.3	0.6	30.57	70
1849	488153	5307577	13.52	<0.05	<1	<3	44	15.3	10971	117	0.5	24.4	3.64	<0.3	0.5	42.51	52
1851	487443	5308044	65.68	<0.05	<1	<3	20	15.1	4713	31	0.7	19.0	2.71	<0.3	<0.3	21.34	20
1852	486592	5308120	54.22	<0.05	1	<3	25	11.3	7293	244	1.1	18.6	8.09	0.7	0.9	33.55	59
1853	486176	5308008	75.98	<0.05	<2	N/A	17	43.9	9124	306	2.4	22.9	2.31	N/A	N/A	35.88	125
1854	485642	5307876	27.95	0.10	<1	<3	60	25.2	14939	374	0.8	34.9	4.02	0.7	1.2	70.71	70
1855	486126	5307420	47.71	<0.05	2	<3	23	13.2	4490	96	0.7	19.9	2.87	<0.3	0.6	23.42	49
1856	488765	5291644	56.49	<0.05	<1	<3	11	10.0	2135	86	0.9	23.2	4.73	<0.3	0.4	11.41	43
1857	488736	5289662	60.52	<0.05	<1	<3	23	15.6	2513	91	1.4	44.1	1.57	<0.3	0.4	14.29	98
1858	488006	5287760	55.48	<0.05	3	<3	20	23.2	27455	93	1.2	67.0	1.69	<0.3	0.5	27.34	147
1859	488005	5284335	62.06	<0.05	<1	<3	14	19.2	1929	70	1.9	26.1	0.89	0.3	0.6	18.17	93
1861	484296	5303710	61.79	<0.05	4	<3	15	12.6	5053	152	1.3	14.8	3.63	0.4	0.6	20.23	66
1862	483444	5302481	93.26	<0.05	<2	<6	7	5.8	1667	117	0.4	8.0	1.95	<0.6	<0.6	9.51	65
1863	483455	5301544	80.76	<0.05	<1	<5	14	5.2	6016	62	2.8	5.3	0.97	0.9	<0.5	12.41	31
1864	482819	5301359	47.49	<0.05	<1	3	25	10.8	3232	53	0.7	15.2	3.34	<0.3	0.3	37.46	59
1865	482342	5300687	50.52	<0.05	<1	5	23	10.3	3047	54	0.6	14.0	3.32	<0.3	0.5	32.05	58
1867	484122	5299184	67.38	<0.05	<1	<5	8	5.5	6651	145	2.8	7.8	2.60	<0.5	<0.5	8.1	50
1868	484282	5299599	65.12	<0.05	<1	<3	15	7.9	5332	64	1.9	7.5	0.90	<0.3	<0.3	16.12	56
1869	484575	5299779	71.93	<0.05	<1	<6	15	8.7	12952	133	2.1	8.6	1.28	<0.6	<0.6	13.65	99
1871	484572	5299120	73.16	<0.05	<1	<3	15	14.1	9523	142	1.2	11.2	1.55	0.3	0.4	24.6	120
1872	485422	5299269	82.42	<0.05	<1	N/A	88	137.7	18492	186	15.9	71.8	9.14	N/A	N/A	115.26	152
1873	487174	5298317	92.83	<0.05	N/A	<6	13	6.1	1022	178	0.4	8.7	8.69	<0.6	<0.6	5.92	75
1874	487903	5296859	44.90	<0.05	<1	<3	40	277.8	3992	43	0.8	28.4	4.16	2.2	1.2	168.99	30
1875	488282	5294454	94.50	<0.05	<2	<9	14	10.3	880	48	0.6	9.0	2.88	<0.9	<0.9	10.78	40
1876	488765	5291644	21.78	<0.05	1	<3	15	45.5	2097	29	0.4	20.0	4.14	0.6	0.5	76.97	26
1877	488736	5289662	54.79	<0.05	<1	<3	33	28.4	3699	166	1.2	22.9	3.24	0.7	1.0	76.4	57
1878	488006	5287760	45.95	<0.05	<1	<3	26	39.7	3027	73	1.6	24.8	3.21	0.4	0.7	57.41	57
1879	488005	5284335	64.42	<0.05	6	3	17	135.8	4796	88	1.7	25.5	10.00	1.2	0.9	26.44	77
1881	488606	5282851	46.26	<0.05	3	<3	38	40.4	6455	136	1.2	28.6	2.82	0.6	0.8	76.5	54
1882	488586	5282572	44.44	<0.05	<1	<3	35	30.4	4496	78	1.0	34.3	3.83	0.7	0.9	87.76	39
1883	488869	5281791	48.74	<0.05	<1	<3	78	32.4	29579	298	1.0	34.6	3.19	1.0	1.2	138.89	96
1884	488692	5281429	41.85	<0.05	2	<3	17	22.8	3097	70	0.7	24.2	2.84	0.5	0.6	31.17	32
1885	489161	5280168	57.04	<0.05	4	<3	19	36.2	6442	92	2.1	16.9	1.92	0.4	0.5	40.78	148
1886	488211	5279786	42.08	<0.05	2	<3	91	52.0	26862	498	6.9	24.1	3.11	2.1	1.2	50.24	91
1887	477088	5262062	46.58	<0.05	<1	<3	36	43.0	9012	216	1.6	21.4	3.40	0.6	0.8	125.57	76
1888	477305	5260687	40.09	<0.05	<1	<3	39	30.5	5623	74	1.8	19.1	2.82	<0.3	<0.3	67.56	50
1889	479214	5260512	52.20	<0.05	<1	<3	37	32.6	4688	148	2.0	23.2	4.89	1.0	0.8	85.08	62
1891	480799	5260392	16.86	<0.05	3	<3	37	20.3	5540	43	0.8	14.5	2.17	1.8	0.6	48.59	28
1892	480106	5259457	41.56	<0.05	<1	<3	35	24.1	6958	118	1.0	17.8	2.67	1.1	0.8	81.95	47
1893	480633	5258235	46.99	<0.05	<1	4	45	22.4	11662	212	1.0	17.2	3.36	1.1	0.9	88.94	70
1894	481263	5257883	54.09	<0.05	<1	<3	33	21.6	10352	283	1.2	15.6	3.27	0.8	0.7	82.43	82
1895	481816	5258245	46.90	<0.05	<1	<3	31	20.2	7574	407	1.1	19.1	4.50	0.7	0.8	83.66	80
1896	481259	5258986	36.26	3.86	<1	<3	36	16.7	6375	87	0.8	17.0	2.63	0.8	0.6	51.4	29
1897	481809	5258813	39.23	4.36	<1	<3	58	30.9	13135	239	0.6	29.0	2.57	1.2	1.0	165.41	78
1898	482831	5258626	49.55	1.73	<1	<3	40	22.9	8870	316	1.1	22.8	2.59	0.7	0.8	90.19	81
1699	484037	5259147	48.31	0.18	<1	<3	51	29.6	12400	348	1.2	23.6	3.21	0.9	0.9	109.27	92
1901	485207	5259377	35.73	<0.05	<1	<3	57	31.8	16767	292	0.7	27.2	3.56	1.6	1.5	107.54	96
1902	485520	5260342	57.76	<0.05	<1	<3	10	36.5	1153	40	1.2	24.2	1.76	0.5	0.6	31.73	61
1903	485603	5260626	47.98	<0.05	<1	<3	9	50.9	1233	39	1.2	15.1	0.77	<0.3	0.5	42.16	47
1905	483325	5260326	46.55	<0.05	1	<3	45	39.5	18959	434	1.0	25.4	3.82	0.7	0.9	119.56	79
1906	479922	5255221	62.42	<0.05	<1	<3	24	22.1	5663	206	1.0	17.3	3.27	0.6	0.7	49.5	50
1907	480279	5253675	39.85	<0.05	5	<3	52	22.9	29440	332	1.0	16.6	2.65	1.2	0.9	127.15	75
1908	480738	5253014	47.68	0.09	<1	<3	57	28.6	38436	425	1.5	19.2	3.31	1.1	0.9	161.09	89
1909	480572	5253264	25.23	<0.05	5	<3	24	14.4	8102	170	0.6	13.4	3.83	0.4	0.6	53.95	51
1911	480419	5252602	38.85	<0.05	<1	<3	17	18.2	4141	29	1.4	17.5	2.74	0.4	0.4	37.82	45
1912	480782	5252359	43.77	<0.05	<1	<3	25	21.6	3924	101	1.2	15.1	2.07	0.8	0.7	45.96	49
1913	481266	5251866	67.39	<0.05	<1	<13	18	94.7	16099	534	2.2	82.7	3.57	<1	<1	35.34	154
1915	481784	5251579	43.25	<0.05	<1	<3	47	30.6	20890	349	0.9	21.3	5.81	0.6	0.8	125.82	86
1916	480547	5250326	38.63	<0.05	<1	<3	30	34.8	8792	275	1.5	20.8	3.60	0.6	0.6	46.46	80
1918	481528	5249801	92.25	<0.05	<1	<12	6	7.5	1010	25	0.5	9.7	10.08	<1	<1	4.97	35
1919	481546	5250444	38.42	<0.05	<1	<3	19	31.1	4561	76	1.5	17.0	4.30	<0.3	0.5	32.17	70
1921	482094	5250500	45.57	9.11	<1	<3	39	28.1	79204	1340	0.9	14.9	4.06	<0.3	0.6	107.28	76
1922	482652	5251262	43.81	6.92	1	<3	41	30.0	11922	361	1.1	22.6	5.40	0.5	0.7	102.42	83

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
	Zone 17	Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
1923	482198	5251292	49.61	5.15	<1	<3	47	33.1	20017	505	1.1	18.2	4.49	0.7	0.7	151.7	112
1924	482162	5252507	61.09	4.28	<1	<3	12	32.5	2085	200	2.8	17.0	1.95	<0.3	0.7	38.37	94
1925	481781	5253270	48.15	5.28	<1	<3	15	24.4	5409	89	1.7	14.1	4.02	<0.3	0.4	56.62	79
1927	483265	5255966	58.43	1.24	4	<3	38	33.1	15533	138	5.3	29.0	10.86	1.7	1.2	59.39	95
1928	483982	5255580	49.95	0.46	1	<3	15	10.6	4674	72	1.2	16.3	1.48	0.5	0.7	37.16	54
1929	486225	5253808	86.95	1.60	<1	<3	13	12.8	3812	182	1.0	9.3	2.19	<0.3	0.3	18.55	113
1931	486915	5253151	37.70	1.23	<1	3	21	5.6	2183	27	0.3	9.8	4.02	<0.3	0.3	18.78	21
1932	487031	5254467	42.54	0.86	2	<3	13	7.7	2571	98	0.5	12.6	9.93	<0.3	0.3	12.42	26
1933	487046	5261061	39.42	1.10	4	<3	36	37.5	3153	35	0.7	19.0	10.08	0.7	0.8	23.32	56
1934	486017	5262647	41.52	1.62	<1	<3	18	37.8	1928	26	1.2	21.1	3.40	0.6	0.6	34.22	41
1935	487417	5264253	20.76	0.98	<1	<3	26	23.8	6754	225	1.0	19.1	3.52	0.9	0.9	39.38	34
1936	487291	5263489	39.74	0.78	<1	<3	42	28.0	8624	337	0.8	18.4	2.49	0.9	0.8	64	74
1937	488446	5262054	92.72	<0.05	5	<3	6	6.6	708	11	2.4	6.5	0.40	0.7	0.6	2.81	26
1938	492243	5263569	94.36	0.46	<1	<4	8	7.9	572	55	3.3	5.6	1.69	0.4	<0.4	5.35	127
1939	492625	5263541	75.14	<0.05	<1	<3	15	17.6	6771	201	3.4	13.1	1.51	0.6	0.5	10.21	122
1941	491977	5263838	91.52	<0.05	2	<9	10	9.0	1279	212	0.5	8.1	8.72	<0.9	<0.9	8.67	97
1942	489837	5265112	89.65	2.41	3	<10	15	6.1	966	102	0.5	9.1	1.88	<1	<1	7.58	58
1943	488408	5265819	49.66	1.93	N/A	N/A	15	5.0	1361	49	0.4	9.0	2.29	N/A	N/A	6.28	44
1944	488899	5267254	71.60	<0.05	<1	<3	35	17.5	4342	141	0.9	20.1	4.82	<0.3	<0.3	13.45	170
1945	489719	5266946	53.05	<0.05	<1	<3	145	37.8	6712	163	7.1	22.2	5.84	6.8	2.5	15.48	52
1947	490994	5267574	75.79	<0.05	<1	<4	34	17.2	2926	56	3.5	18.6	2.74	1.6	0.6	14.97	91
1948	490608	5268634	77.80	<0.05	<1	<6	21	8.7	1746	138	0.6	13.0	3.42	<0.6	<0.6	13.36	78
1951	488587	5269808	88.97	<0.05	<1	<5	18	15.6	1474	248	0.6	15.0	1.68	<0.5	<0.5	15.75	79
1952	488405	5269979	93.39	<0.05	N/A	<6	11	7.0	1648	1109	0.3	8.3	4.09	<0.6	<0.6	5.39	81
1953	488863	5270481	84.28	<0.05	<1	<3	17	17.2	1814	238	2.6	16.6	1.66	0.5	0.8	11.42	113
1955	487882	5272323	76.10	<0.05	3	<3	16	27.0	6310	314	4.0	13.9	2.26	1.0	0.5	12.39	172
1956	486435	5270811	76.98	<0.05	4	<3	15	67.3	10523	216	1.4	15.8	1.86	1.1	0.9	39.44	232
1958	491149	5275745	42.11	<0.05	2	<3	85	40.3	10128	98	2.4	22.5	2.36	2.2	1.7	55.36	55
1959	491614	5276177	91.17	<0.05	N/A	N/A	12	9.8	2341	56	0.9	11.0	0.96	N/A	N/A	11.35	103
1961	491296	5276812	60.83	<0.05	<1	<3	40	29.7	4857	84	0.7	23.3	3.14	0.5	0.3	25.01	89
1962	491869	5277870	68.65	<0.05	<1	<3	37	30.6	4234	47	6.2	15.0	1.88	2.6	1.1	20.04	62
1963	492438	5277789	57.56	<0.05	<1	<3	27	31.2	5021	120	1.2	26.8	3.28	0.4	0.7	41.46	71
1964	492665	5277981	60.33	<0.05	4	4	12	28.5	2217	60	1.7	18.3	1.07	0.4	0.7	16.26	48
1965	492442	5276897	69.30	<0.05	4	<5	30	71.5	7794	185	2.0	22.7	9.62	1.3	1.0	40.99	72
1966	493112	5275370	61.89	<0.05	3	3	18	63.5	2805	144	2.0	19.5	1.95	0.7	0.7	29.23	53
1967	493799	5275753	69.01	10.24	<1	3	16	51.7	1812	76	2.0	23.3	1.81	0.6	0.7	20.5	78
1968	493401	5276098	79.10	4.99	5	<6	10	26.6	1502	72	1.8	13.7	1.01	<0.6	<0.6	13.83	65
1969	494295	5276266	81.18	1.35	4	N/A	20	46.9	2571	72	3.2	28.8	1.30	N/A	N/A	21.34	95
1971	493733	5276783	64.38	0.79	4	<3	22	42.4	7506	159	1.5	16.7	2.88	<0.3	0.6	29.24	74
1972	494297	5277609	76.44	<0.05	7	<3	17	49.1	9712	148	1.4	16.2	1.53	0.4	0.6	20.74	147
1973	492977	5278671	56.48	<0.05	8	4	22	50.3	4015	47	1.8	23.7	1.78	0.5	0.5	48.16	48
1974	491011	5278153	40.90	0.43	3	<3	67	23.6	63835	3512	1.1	26.8	3.77	1.0	0.9	73	97
1975	489698	5278997	63.50	<0.05	3	<3	9	14.6	1777	61	2.2	10.4	1.24	<0.3	0.4	11.81	52
1976	489487	5279358	58.99	<0.05	<1	<3	20	23.5	5069	46	2.1	25.1	2.29	0.8	0.9	27.69	61
1977	490322	5280149	58.57	<0.05	<1	<3	26	43.4	5616	68	2.1	35.5	3.76	1.0	0.7	46.33	53
1978	491261	5280330	45.55	<0.05	<1	<3	35	48.0	11640	165	1.7	24.4	2.33	0.6	0.5	92.2	59
1979	490174	5280711	44.97	<0.05	<1	<3	42	52.5	4508	174	1.2	27.1	2.48	1.4	1.0	61.18	68
1981	489666	5280907	53.81	<0.05	<1	<3	68	36.0	15713	399	1.0	28.5	3.24	1.0	1.2	127.08	92
1982	490074	5281565	45.10	<0.05	4	<3	40	35.7	6450	104	3.8	36.9	6.63	1.4	1.1	58.36	54
1983	489765	5281851	51.12	<0.05	2	<4	24	36.1	4596	83	2.6	34.6	1.41	1.5	0.7	42.74	36
1984	490380	5282205	61.22	<0.05	<1	<3	51	83.4	4727	119	4.2	63.8	2.23	3.3	1.3	34.83	48
1985	490512	5281548	64.22	<0.05	<1	<3	20	40.1	7324	138	2.2	22.5	1.97	0.6	0.6	35.85	52
1986	491788	5281638	47.56	1.43	4	<3	61	42.0	94542	5278	1.6	26.9	4.20	1.1	1.2	140.69	93
1987	492734	5281226	44.94	0.84	<1	<3	77	33.5	20968	779	1.0	35.0	13.18	1.0	1.0	87.99	149
1988	492907	5280632	67.89	0.40	3	<3	17	38.7	3145	144	2.0	12.8	1.67	0.4	0.5	36.36	73
1989	494124	5281313	78.74	0.09	<1	<6	15	26.7	3276	64	2.2	14.6	1.29	<0.6	<0.6	17	81
1991	492719	5282315	46.00	0.28	1	<3	390	82.5	9351	612	2.7	22.4	4.36	<0.3	0.5	91.58	64
1992	492695	5282660	54.17	0.20	3	<3	29	64.6	10959	418	3.1	21.4	4.48	0.5	0.7	89.71	67
1993	491739	5282814	41.08	0.47	5	<3	43	88.3	7533	425	0.9	25.7	2.97	0.5	0.6	94.91	57
1994	491928	5283534	54.46	<0.05	<1	<7	11	94.8	1251	30	2.3	20.2	1.26	<0.7	<0.7	39.5	34
1995	489957	5282555	89.26	<0.05	<1	N/A	13	19.5	759	40	1.3	29.8	1.12	N/A	N/A	10.21	73
1996	490020	5283149	78.85	<0.05	<1	<9	12	23.8	1874	42	1.8	17.6	1.23	<0.9	<0.9	20.56	42
1997	489624	5282185	52.44	<0.05	3	<3	28	47.4	4046	136	2.2	48.5	1.06	1.3	0.9	35.18	36
1998	489237	5283688	52.38	<0.05	6	<4	41	58.6	11476	810	2.7	44.4	3.54	1.2	1.0	96.99	60

Site	Easting	Northing	LOI	Ag	Au	Au	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	REEs	Zn
	NAD 27 Zone 17	Method	Grav.	ICP-MS	INAA	FA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-MS	ICP-MS	ICP-MS	FA	FA	ICP-MS	ICP-OES
		Units	%	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm
		MDL	0.01	0.05	1	3	1	0.5	5	1	0.1	0.5	0.05	0.3	0.3	n/a	2
1999	490335	5284399	53.95	0.48	5	<3	52	93.5	25619	2653	4.4	59.9	6.66	1.2	1.4	122.29	103
2001	492139	5285169	55.92	<0.05	<1	<3	16	39.0	2859	95	7.6	23.0	2.76	<0.3	0.8	40.02	54
2002	491676	5285477	45.62	<0.05	<1	<3	4	37.7	633	46	5.0	12.0	0.38	<0.3	0.4	13.18	27
2003	491394	5286276	58.90	0.09	1	<3	36	38.2	3005	56	1.3	20.5	3.82	0.3	0.6	48.36	81
2004	491338	5286716	37.37	<0.05	4	<3	43	45.7	9863	285	1.6	34.1	3.04	1.1	1.1	56.06	50
2005	490230	5287272	53.42	<0.05	1	<3	49	56.9	15021	488	1.8	37.2	3.81	1.2	1.2	98.46	80
2006	489742	5285910	75.03	<0.05	6	<13	27	77.3	4381	61	3.3	52.2	3.70	3.0	2.0	60.73	92
2007	486162	5287016	53.92	8.66	<1	<3	22	36.0	2526	62	2.0	26.8	2.24	0.5	0.8	49.07	58
2008	485013	5287177	21.45	10.03	<1	<3	21	12.6	2659	38	0.3	11.3	5.80	<0.3	0.4	28.79	38
2009	484313	5285067	58.39	4.88	<1	<3	38	30.9	9948	351	1.7	24.0	2.55	<0.3	0.4	57.71	107
2011	486070	5281017	63.51	0.75	3	<3	13	47.0	3468	74	2.3	20.4	1.83	<0.3	<0.3	34.73	110
2012	487385	5280806	47.46	0.35	<1	<3	20	41.9	3049	61	2.2	25.4	2.49	0.6	0.5	29.85	65
2014	480153	5268553	56.97	0.64	5	<3	53	73.7	9320	717	2.7	29.0	3.41	1.4	1.1	59.55	160

Metric Conversion Table

Conversion from SI to Imperial			**Conversion from Imperial to SI**		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
LENGTH					
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
AREA					
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
VOLUME					
1 cm^3	0.061 023	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.307 951	cubic yards	1 cubic yard	0.764 554 86	m^3
CAPACITY					
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
MASS					
1 g	0.035 273 962	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 747	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 622 6	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311 3	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 90**	t
CONCENTRATION					
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

	Multiplied by	
1 ounce (troy) per ton (short)	31.103 477	grams per ton (short)
1 gram per ton (short)	0.032 151	ounces (troy) per ton (short)
1 ounce (troy) per ton (short)	20.0	pennyweights per ton (short)
1 pennyweight per ton (short)	0.05	ounces (troy) per ton (short)

Note: Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in co-operation with the Coal Association of Canada.

MAPS NOT FILMED

CARTES NON REPRODUITES

micromedia
a division of IHS Canada

20 Victoria Street
Toronto, Ontario M5C 2N8
Tel.: (416) 362-5211
Toll Free: 1-800-387-2689
Fax: (416) 362-6161
Email: info@micromedia.on.ca